

Surveyor of Hamilton County Phone (317) 776-8495 Fax (317) 776-9628

One Hamilton County Square Noblesville, Indiana 46060-2230 Kew

October 5, 2018

To: Hamilton County Drainage Board

Re: Boone Creek Drain, Copper Run Arm

Attached is a petition filed by Pulte Homes of Indiana, LLC, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Copper Run (AKA Copperleaf) Arm, Boone Creek Drain to be located in Clay Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a public highway, and be of public utility and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

12" RCP	655 ft.	24" RCP	569 ft.
15" RCP	715 ft.	30' RCP	222 ft.
15" HDPE	8 ft.	36" RCP	483 ft.
18" RCP	151 ft.	42" RCP	165 ft.
21" RCP	576 ft.	6" SSD	3,120 ft.
		Open Ditch	15 ft.

The total length of the drain will be 6,679 feet.

The retention ponds (Lake #1 and Lake #2) located in Common Area A are not to be considered part of the regulated drain. Pond maintenance assumed by the Drainage Board shall only include the inlets and outlets as part of the regulated drain. The maintenance of the retention ponds (lakes) such as sediment removal and erosion control along the banks, mowing and aquatic vegetation maintenance and control will be the responsibility of the Homeowners Association The Board will retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained. Thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those main lines located in rear yards and common areas. The SSD's in the street will not be part of the regulated drain due to street trees and the Hamilton County Drainage Board discussion on July 9, 2018, (see Hamilton County Drainage Board Minute Book 18, Pages 204 to 206). The street SSD will be the maintenance responsibility of the City of Carmel. Only the main SSD lines which are located within the easement are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated are as follows:

Rear Yard SSDs:

Rear yard lots 1 and 2 from Str. 651 running north to riser Rear yard lots 3 and 4 from Str. 608 running south east to riser Rear yard lots 5 and 6 from Str. 644 running west to riser Rear yard lots 6 and 7 from Str. 644 running east to riser Rear yard lots 8 and 9 from Str. 638 running south to riser Rear yard lots 10 and 11 from Str. 638 running north to riser Rear yard lot 11 from Str. 613 running south to riser Rear yard lots 17 and 18 from Str. 644 running south to riser Rear yard lots 19 to 20 from Str. 647 running south to riser Common Area C from Str. 647 running south to riser Rear yard lots 21 and 22 from Str. 647 running north to riser Common Area C from Str. 647 running north to riser Rear yard lots 23 to 25 from Str. 634 running south to riser Rear yard lot 26 from Str. 634 running north to riser Rear yard lots 26 and 27 from Str. 616 running south to riser Rear yard lot 28 from Str. 616 running north to riser Common Area C from Str. 616 running south to riser Common Area C from Str. 616 running south to riser Common Area A from Str. 621 to Str. 622 Common Area A from Str. 622 running north west to riser

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$65.00 per platted lot, \$10.00 per acre for common areas, with a \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain will be \$2,259.00. I further recommend that the maintenance assessment collections be set to eight (8) times the annual collections as allowed in IC 36-9-27-43.

In accordance with IC 36-7-4-709, the petitioner did not submit surety for the proposed drain prior to construction commencing. If the petitioner/developer wants to submit final secondary plat for recording prior to the final inspection and approved as-built drawings, a bond will be required at that time.

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

The off-site easement for this project will cross parcel number 019-10350-01 in Boone County, owned by Austin Oaks Homeowner's Association. An easement agreement is recorded as instrument number 2018009257 in the office of the Boone County Recorder.

The portion of drain within Boone County will consist of approximately 484 feet of 24" RCP and 15 feet of open ditch. The 24" RCP will begin approximately 28 feet northeast of Str. 604 and terminate at Str. 601. The open ditch shall be that section between Str. 601 and the south property line of Austin Oaks Section 10 Meadows Block "B".

Because the area of affected land in Hamilton County exceeds 80% of the total area of land affected by the proposed drain, also, because more than 90% of the length of the drain lies within Hamilton County, I have sent the Boone County Drainage Board a request for waiver of a Joint Drainage Board for this drain as per IC 36-9-27-14 (c).

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Copper Run as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 26, 2018.

Kenton C. Ward, CFM Hamilton County Surveyor

KCW/pll

STATE OF INDIANA

(Revised 06/08/04)

COUNTY OF HAMILTON)

TO: HAMILTON COUNTY DRAINAGE BOARD % Hamilton County Surveyor One Hamilton County Square, Suite 188 Noblesville, IN. 46060-2230

FILED JUL 3 0 2018

OFFICE OF HAMILTON COUNTY SURVEYOR

In the matter of	Copperleaf	Subdivision, Section
	Drain Petition.	

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in <u>Copperleaf</u>, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

- 1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
- 2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
- 3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
- 4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
- 5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

Adobe PDF Fillable Form

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED

Signer

Jeremy Lollar, Pulte Homes

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Adobe PDF Fillable Form

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Boone Creek Drain, Copper Run Arm

On this 26th day of November, 2018, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Boone Creek Drain, Copper Run Arm.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

HAMILTON COUNTY DRAINAGE BOARD

President

Member

Attest Executive Secretary

FILE

Pulte Homes Project: Copperlead HWC Project No. 2017-232 Date: 07/27/18

JUL 3 0 2018



DESIGN OF HAMILTON COUNTY SURVEYOR

	PERFORMANCE BOND - ENGI	NEERS ESTIMA	TE				
	ITEM NAME:	UNIT	QUANTITY	L	INIT COST		AMOUNT
STORM SEWER	12" RCP	LF	655	\$	30.00	\$	19,650.00
	15" RCP	LF	715	\$	35.00	\$	25,025.00
	18" RCP	LF	151	\$	40.00	\$	6,040.00
	21" RCP	LF	576	\$	45.00	\$	25,920.00
	24" RCP	LF	569	\$	50.00	\$	28,450.00
	30" RCP	LF	222	\$	60.00	\$	13,320.00
	36" RCP	LF	483	\$	65.00	\$	31,395.00
	42" RCP	LF	165	\$	75.00	\$	12,375.00
	12" END SECTION	EA	1	\$	950.00	\$	950.00
	18" END SECTION	EA	1	\$	1,150.00	\$	1,150.00
	21" END SECTION	EA	2	\$	1,250.00	\$	2,500.00
	24" END SECTION	EA	1	\$	1,350.00	\$	1,350.00
	30" END SECTION	EA	2	\$	1,750.00	\$	3,500.00
	36" END SECTION	EA	1	\$	2,050.00	\$	2,050.00
	42" END SECTION	EA	1	\$	2,350.00	\$	2,350.00
	12" TRASH GUARD	EA	1	\$	600.00	\$	600.00
	18" TRASH GUARD	EA	1	\$	650.00	\$	650.00
	21" TRASH GUARD	EA	2	\$	700.00	\$	1,400.00
	24" TRASH GUARD	EA	1	\$	750.00	\$	750.00
	30" TRASH GUARD	EA	2	\$	800.00	\$	1,600.00
	36" TRASH GUARD	EA	1	\$	850.00	\$	850.00
	42" TRASH GUARD	EA	1	\$	1,000.00	\$	1,000.00
	MANHOLE, STANDARD	EA	7	\$	3,000.00	\$	21,000.00
	MANHOLE, LARGE	EA	11	\$	4,000.00	\$	44,000.00
	STANDARD INLET	EA	9	\$	2,000.00	\$	18,000.00
	DOUBLE INLET	EA	8	\$	4,000.00	\$	32,000.00
	CURB SSD	LF	4379	\$	10.00	\$	43,790.00
	SWALE SSD	LF	3009	\$	10.00	\$	30,090.00
	SSD LATERALS	EA	28	\$	100.00	\$	2,800.00
	GRANULAR BACKFILL	TON	470	\$	20.00	\$	9,400.00
The state of the state of the	A STATE OF A	ST	ORM SEWE	R S	UBTOTAL:	\$	383,955.00
	STORM S	SEWER PERFC	RMANCE B	BON	ID (120%):	\$	460,746.00
			110		35.00	¢	3,850.00
MONUMENTATION	LOT CORNERS	EA	110	\$ \$		\$	2,400.00
	CENTERLINE	EA	12		200.00	\$	
	CONCRETE 4X4 PROPERTY CORNERS	EA		\$	500.00		2,000.00
The second second second			MENTATIO				8,250.00
	MONUMENT	ATION PERFC	RIVIANCE		ND (120%):	\$	9,900.00

This Engineer's Estimate is an opinion of probable construction cost made on the basis of Engineer's experience and represent Engineer's judgement as a qualified professional generally familiar with the industry. However, since Engineer has no control over the cost of materials, equipement, labor or market conditions, Engineer cannot guarantee that actual construction cost will not vary from this Engineer's Estimate.

Branch TBmL

Brandon T. Burke, P.E. HWC Engineering



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BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

Boone Creek Drain, Copper Run Arm

NOTICE

To Whom It May Concern and:_____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Boone Creek Drain, Copper Run Arm on November 26, 2018 at 9:00 A.M. in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

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BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF THE

Boone Creek Drain, Copper Run Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on November 26, 2018 has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



Senton C. Wara, CFM Surveyor of Hamilton County Phone (317) 776-8495 Tax (317) 776-9628 One Hamilton County Square Noblesville, Indiana 46060-2230 M.E.V-

To: Hamilton County Drainage Board

September 30, 2020

Re: Boone Creek Drain: Copper Run Arm

Attached are as-built, certificate of completion & compliance, and other information for Copper Run. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated October 5, 2018. The report was approved by the Board at the hearing held November 26, 2018. (See Drainage Board Minutes Book 18, Pages 310-311) The changes are as follows: the 12" RCP was shortened from 652 feet to 655 feet. The 15" RCP was shortened was shortened from 715 to 713 feet. The 15" HDPE was changed to 8 feet of 12" SSD. The 18" RCP was lengthened from 151 feet to 153 feet. The 21" RCP was lengthened from 576 feet to 591 feet. The 24" RCP was shortened from 569 feet to 565 feet. The 30" RCP was shortened from 222 feet to 217 feet. The 36" RCP was lengthened from 483 feet to 487 feet. The 42" RCP was lengthened from 165 feet to 166 feet. The 6" SSD was shortened from 165 feet to 166 feet. The length of the drain due to the changes described above is now **6,549 feet**.

The non-enforcement was approved by the Board at its meeting on November 26, 2018 and recorded under instrument #2019004669. Sureties not posted by the developer for this project in accordance with IC 36-7-4-709.

I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely, Kenton C. Ward, CI

Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Copper Run (west of 131st & West Road, Carmel)

I hereby certify that:

- 1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
- 2. I am familiar with the plans and specifications for the above referenced subdivision.
- 3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
- 4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.
- 5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature:	D		Date:	12/17/2020
Type or Print Name: _	Luke A. Jahn			
Business Address:	135 N. Pennsylvania S	treet		alasanay, and a second second
	Suite #2800		•	
Telephone Number: _	317-981-1269			-
SEAL NULLE A. JANE BOISTERS NO. 20900171			REGIS ⁷ 0900171	TRATION NUMBER
20900171 STATE OF MOLAN				

OVERALL GENERAL PROJECT NOTES

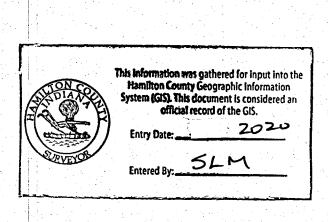
NOT ALL GAS. POWER. OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ANY UNDERGROUND INFORMATION SHOWN ON THE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONTRACTORS BENEFIT. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES IN HIS WORK AREA WHETHER SHOWN OR NOT, AND MUST REALIZE THAT THE ACTUAL LOCATION OF THE UTILITIES MAY BE DIFFERENT FROM THAT SHOWN ON THE DRAWINGS. ALL EXISTING UTILITIES ENCOUNTERED IN THE WORK, WHETHER IN PUBLIC RIGHTS OF WAY OR ON PRIVATE PROPERTY, SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN IN SERVICE ANY UTILITIES WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION TO SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE UTILITY, IF MINOR CONFLICTS ARISE, THE CONTRACTOR MAY SHIFT THE PROPOSED LOCATION OF THE INSTALLATION OF THE WORK. BEFORE WORKING WITH OR AROUND UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE NOTIFIED BY THE

SAFETY PROVISIONS FOR THE WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF THE INDIANA OSHA AND ANY OTHER LOCAL STATE OR FEDERAL AGENCY HAVING JURISDICTION. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. CONTRACTOR SHALL AT MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S WORK FORCES AND THE WORK. TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, STANDARD DETAILS AND GENERAL INSTRUCTIONS TO FIELD EMPLOYEES. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. THE OPTION OF THE OWNER AND/OR ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, FENCES, WARNING SIGNS, FLASHING LIGHTS, DEVIEW OF THE ADEQUACY OF THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, FENCES, WARNING SIGNS, FLASHING LIGHTS, DEVIEW OF THE ADEQUACY OF DEVIEW OF DEVIEW OF THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, FENCES, WARNING SIGNS, FLASHING LIGHTS, TEMPORARY WALKWAYS, AND TRAFFIC CONTROL DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS, REQUIREMENTS, SAFETY MEETING REQUIREMENTS AND AGENCY REQUIREMENTS FOR TRAFFIC CONTROL AND SAFETY PRECAUTIONS, THERE WILL BE NO SEPARATE OR ADDITIONAL PAYMENT FOR THIS WORK.

WHERE PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS OR BENCHMARKS, SUCH AS STONES, PIPES, OR OTHER SUCH MONUMENTS ARE ENCOUNTERED AND CONFLICT WITH THE WORK, THE ENGINEER SHALL BE NOTIFIED BEFORE THEY ARE DISTURBED, THE MARKERS SHALL BE PROTECTED AFTER THE OWNER, ENGINEER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATIONS.

ALL MATERIALS DENOTED "SALVAGED" SHALL BE STORED AND PROTECTED AT THE SITE FOR THE OWNER TO COLLECT OR FOR THE CONTRACTOR TO RE-USE AS INDICATED. 5. THERE SHALL BE NO CHANGES WITHOUT WRITTEN APPROVAL OF ENGINEER. 6. ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.

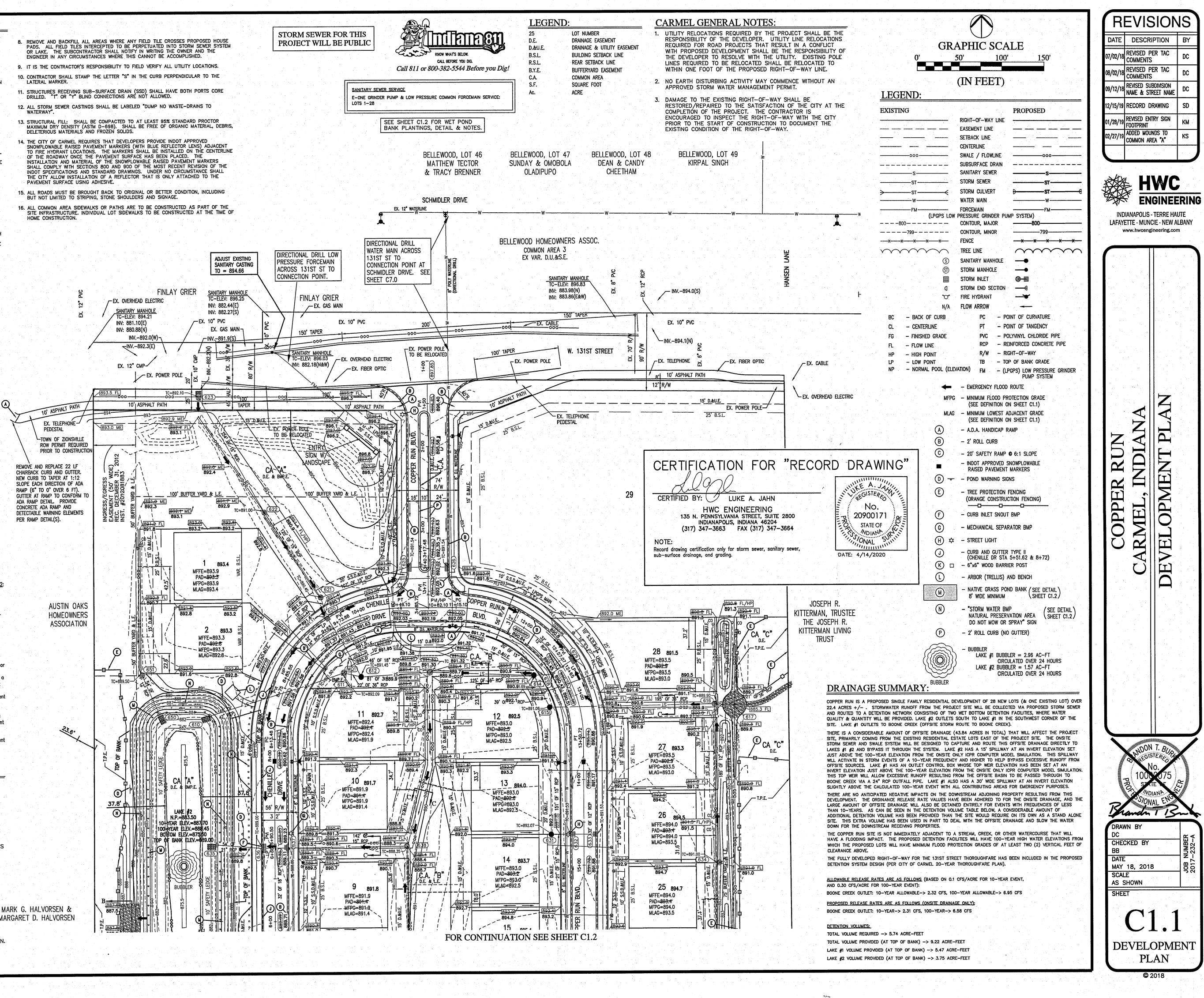
7. CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.



ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.

- LATERAL MARKER.

- THE CITY ALLOW INSTALLATION OF A REFLECTOR THAT IS ONLY ATTACHED TO THE



MINIMUM FLOOD PROTECTION GRADE (MFPG) AND MINIMUM LOWEST ADJACENT GRADE (MLAG) DEFINITIONS FROM CITY OF CARMEL STORMWATER TECHNICAL STANDARDS MANUAL SECTION 104.02

All buildings shall have a minimum flood protection grade shown on the secondary plat. Minimum Flood Protection Grade of all structures fronting a pond or open ditch shall be no less than 2 feet above any adjacent 100-year local or regional flood elevations, whichever is greater, for all windows, doors, pipe entrances, window wells, and any other structure member where floodwaters can enter a building. The Minimum Flood Protection Grade shall also be a minimum of 12 inches above the adjacent roadway. For all structures located in the Special Flood Hazards Area (SFHA) as shown on the FEMA maps, the lowest floor elevations of all residential, commercial, or industrial buildings shall be such that Lowest Floor elevation, including basement, shall be at the flood protection grade and therefore have 2 feet of freeboard above the 100-year flood elevation.

The Lowest Adjacent Grade for residential, commercial, or industrial buildings outside a FEMA or IDNR designated floodplain shall have two feet of freeboard above the flooding source's 100-year flood elevation under proposed conditions. The Lowest Adjacent Grade shall also be a minimum of one (1) foot above the local flood source or local flood route. Lowest Adjacent Grade is the elevation of the lowest grade adjacent to a structure, where the soil meets the foundation around the outside of the structure (including structural members such as basement walkout, patios, decks, porches, support posts or piers, and rim of the window well).

For areas outside a FEMA or IDNR designated floodplain, the Lowest Adjacent Grade (including walkout basement floor elevation) for all residential, commercial, or industrial buildings adjacen to ponds shall be set a minimum of 2 feet above the 100-year pond elevation or 2 feet above the emergency overflow weir elevation, whichever is higher. In addition to the Lowest Adjacent Grade requirements, any basement floor shall be at least a foot above the permanent water level (normal pool elevation).

BENCHMARK INFORMATION:

NOTE: ELEVATION INFORMATION SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BASED UPON GPS OBSERVATIONS PROCESSED BY THE NATIONAL GEODETIC SERVICE (NGS) UTILIZING AN ON-LINE POSITIONING USER SERVICE (OPUS) SOLUTION FROM OBSERVATIONS ON CONTROL POINT #100 (SEE BELOW).

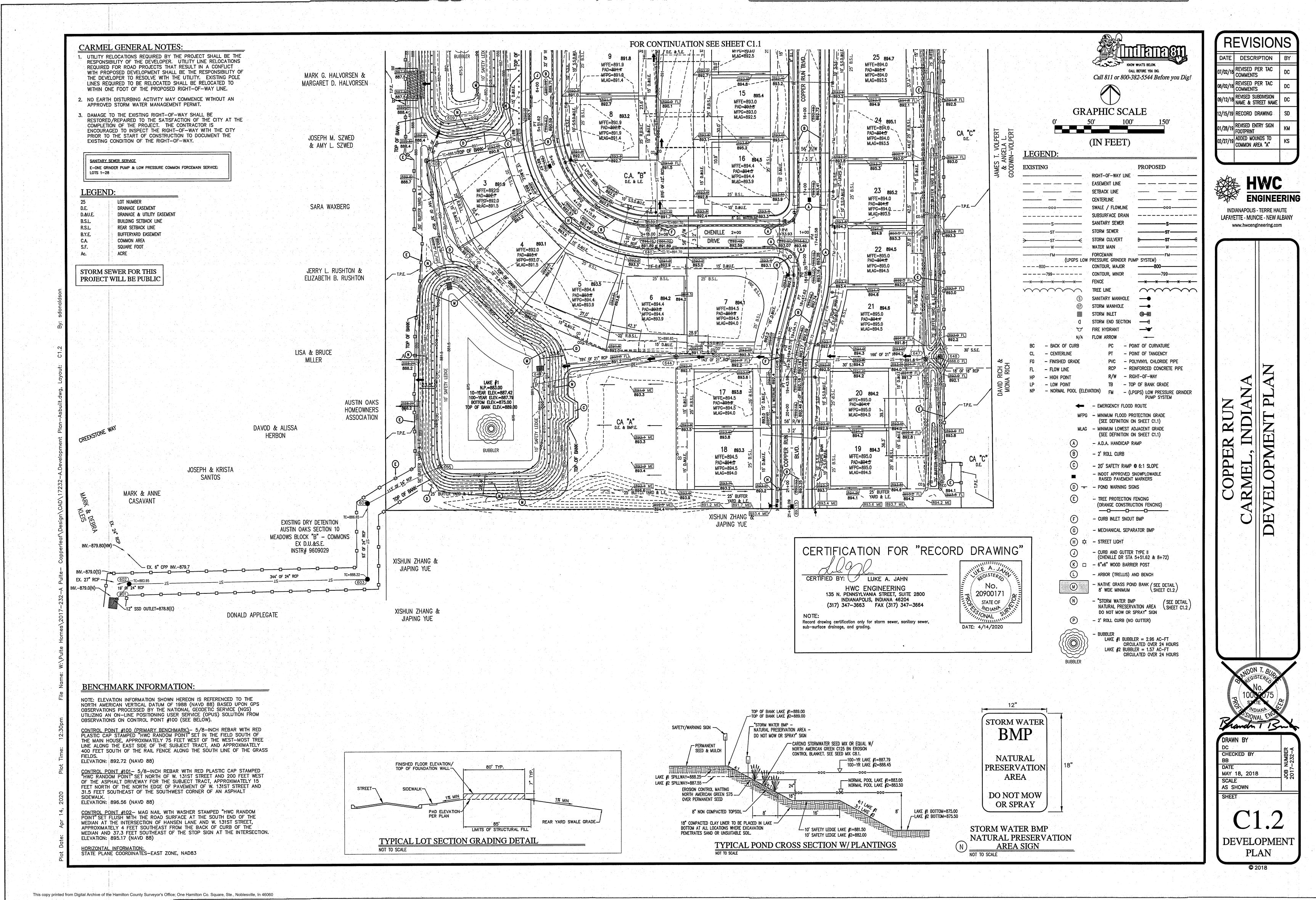
CONTROL POINT #100 (PRIMARY BENCHMARK)- 5/8-INCH REBAR WITH RED PLASTIC CAP STAMPED "HWC RANDOM POINT" SET IN THE FIELD SOUTH OF THE MAIN HOUSE, APPROXIMATELY 75 FEET WEST OF THE WEST-MOST TREE LINE ALONG THE EAST SIDE OF THE SUBJECT TRACT, AND APPROXIMATELY 400 FEET SOUTH OF THE RAIL FENCE ALONG THE SOUTH LINE OF THE GRASS FIELDS. ELEVATION: 892.72 (NAVD 88)

CONTROL POINT #101- 5/8-INCH REBAR WITH RED PLASTIC CAP STAMPED "HWC RANDOM POINT" SET NORTH OF W. 131ST STREET AND 200 FEET WEST OF THE ASPHALT DRIVEWAY FOR THE SUBJECT TRACT, APPROXIMATELY 15 FEET NORTH OF THE NORTH EDGE OF PAVEMENT OF W. 131ST STREET AND 31.5 FEET SOUTHEAST OF THE SOUTHWEST CORNER OF AN ASPHALT SIDEWALK. ELEVATION: 896.56 (NAVD 88)

CONTROL POINT #102- MAG NAIL WITH WASHER STAMPED "HWC RANDOM MARGARET D. HALVORSEN POINT" SET FLUSH WITH THE ROAD SURFACE AT THE SOUTH END OF THE MEDIAN AT THE INTERSECTION OF HANSEN LANE AND W. 131ST STREET, APPROXIMATELY 4 FEET SOUTHEAST FROM THE BACK OF CURB OF THE MEDIAN AND 37.3 FEET SOUTHEAST OF THE STOP SIGN AT THE INTERSECTION. ELEVATION: 895.17 (NAVD 88)

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IORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NAD83



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DESIGN SHALL CONSTRUCTION	ONLY BE PERMITTE AND WILL REQUIR	ED DUE TO SPECIAL CIR E PRIOR FIELD APPROV	RCUMSTANCES OR DIFFIC AL FROM A DESIGNATED	CULTY DURING REPRESENTATIVE OF	THE S	651) 6 51			15	
CITY OF CARME OF ANY SUCH	el in addition to Deviation shall I	SUPPLEMENTAL APPRON BE INCLUDED AS A REC	VAL BY THE DESIGN EN DUIREMENT ON AS-BUIL	GINEER. AN EXPLANA	ATION					
SUBMITTED FOR GENERATING VE	R RELEASE OF PER ELOCITIES OF 2.5 F	RFORMANCE GUARANTEES	5. APPROVED DESIGN S PS OR GREATER (AT FU	SLOPES IDENTIFIED AS ILL FLOW CAPACITY) S	SHALL I	880	891 090	1		
CONTRACTOR IS	S INSTRUCTED TO	AT THE TIME OF CONS AS-BUILT EACH SECTION	ON OF STORM PIPE AS	IT IS BEING INSTALLE			8 			1 11/
		DESIGN PLANS AND AS			P N/	<u>(650)</u>	882			
6. NO EARTH DIS PERMIT.	IURBING ACTIVITY N	IAY COMMENCE WITHOUT	I AN APPRUVED STURM	WATER MANAGEMENT			882 610	9)		1
7. ALL STORMWAT WASTE"	ER DRAINAGE CAST	INGS SHALL BE LABELE	D WITH ENVIRONMENTAL	MESSAGING "DUMP N	vo ⊅	000		D.&U.F.		
1.447.5		L be continuous 0-1	RING RUBBER GASKET (CONFORMING TO ASTM	c		0	15		V FM
443					° ₩11111		8/5.5		'∥ ∦ ₽	
9. 18" OF VERTIC	CAL SEPARATION MU	IST BE MAINTAINED FOR	ALL UTILITY CROSSING	S						
	EWER BACKEILL SP	PECIFICATIONS REFER TO	D STORM SEWER TRENC	H DETAIL STANDARD					· .	· .
DRAWING 10-2	28 ON SHEET C8.4									
DRAWING 10-2 STO	28 ON SHEET C8.4	FILE								
DRAWING 10-2 STO	28 ON SHEET C8.4	FILE								
DRAWING 10-2 STO	28 ON SHEET C8.4	FILE								
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DRAWING 10-2 STO	28 ON SHEET C8.4	FILE								
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DRAWING 10-2 STO VERTICAL HORIZON	28 ON SHEET C8.4	FILE								
DRAWING 10-2 STO	28 ON SHEET C8.4	FILE								
DRAWING 10-2 STO VERTICAL HORIZON	28 ON SHEET C8.4	DFILE = 5' 1" = 50'				4				
DRAWING 10-2 STO VERTICA HORIZON 915	28 ON SHEET C8.4	DFILE = 5' 1" = 50'			83 83	886.47 56.45	886.32	86.31 886.20	.10 .5.85	
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DRAWING 10-2 STO VERTICA HORIZON 915	28 ON SHEET C8.4	$\frac{0 \text{FILE}}{\frac{2}{3}, \frac{5}{3}, \frac{5}{3$				u žú			- ⁰⁰	
DRAWING 10-2 STO VERTICA HORIZON 915	28 ON SHEET CB.4 <u>RM PRC</u> L SCALE: 1" NTAL SCALE:	DFILE = 5' 1" = 50'			CP-SE)	ANHOLE RCP-NW RCP-E)	3" RCP-S		– NW)–8 (P–SE)	MANHOLE
DRAWING 10-2 STO VERTICA HORIZON 915	28 ON SHEET C8.4	DFILE = 5' 1" = 50'			RCP-SE)	MANHOLE	18" RCP-1	8" RCP-N) 88((18" RCP-SE) ANHOLE	RCP-NW)-8 " RCP-SE)	MANHOLE
BRAWING 10-2 STO VERTICA HORIZON 915 910	28 ON SHEET CB.4 RM PRC L SCALE: 1" NTAL SCALE: UTAL	DFILE = 5' 1" = 50'			(15° RCP-SE)	MANHOLE	18" RCP-1	8" RCP-N) 88((18" RCP-SE) ANHOLE	RCP-NW)-8 " RCP-SE)	MANHOLE
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BRAWING 10-2 STO VERTICA HORIZON 915 910 905	28 ON SHEET C8.4 RMPRC L SCALE: 1" NTAL SCALE: NTAL S	DFILE = 5' 1" = 50' 1" = 50' 883 883 883 883 883 883 883 88			(15° RCP-SE)	#621 4' DIA MANHOLE NH R-4342 90.40 889.55 I: 886.60 (15" RCP-NW I: 886.60 (15" RCP-F)	UT: B86.40 (18" RCP-(#620 4' DIA MANHOLE AH R-3501-N 891.17 891.17	V: 886.30 (18" RCP-N) 88 UT: 886.20 (18" RCP-SE) <u>9 4* DIA: MANHOLE</u> R-3501-N	895.90-(18" RCP-NW)-8 885.90-(18" RCP-NW)-8 885.90 (18" RCP-SE)	#612 6' DIA. MANHOLE VAH R 1772 891.45 891.02
BRAWING 10-2 STO VERTICA HORIZON 915 910	28 ON SHEET C8.4 RMPRC L SCALE: 1" NTAL SCALE: NTAL S	DFILE = 5' 1" = 50' 1" = 50' 883 883 883 883 883 883 883 88			(15° RCP-SE)	#621 4' DIA MANHOLE NH R-4342 90.40 889.55 I: 886.60 (15" RCP-NW I: 886.60 (15" RCP-F)	UT: B86.40 (18" RCP-(#620 4' DIA MANHOLE AH R-3501-N 891.17 891.17	IN: 886.30 (18" RCP-N) 880 OUT: 886.20 (18" RCP-SE) 1941 DIAMANHOLE R-3501-N		12 6' DIA. MANHOLE R 1772 45 891,02
BRAWING 10-2 STO VERTICA HORIZON 915 910 905	28 ON SHEET C8.4 RMPRC L SCALE: 1" NTAL SCALE: NTAL S	DFILE = 5' 1" = 50' 1" = 50' 12" = 50' 13" = 50' 140 891.88 882.991.88 883.991.89 883.991.89 893.991.991.89 893.991.991.89 893.991.89 893.991.891.891.			(15° RCP-SE)	21 4' DIA MANHOLE R-4342 40 889.55 886.60 (15" RCP-NW 886.60 (15" RCP-F)	/ OUT: B86.40 (18" RCP- <u>R. #620 4' DIA MANHOLE</u> ENAH R-3501-N . 891.11 891.17	IN: 886.30 (18" RCP-N) 880 OUT: 886.20 (18" RCP-SE) 1941 DIAMANHOLE R-3501-N	891.11 891.05 -IN:- <u>886.00-(</u> 18"-RCP-NW)-8 OUT: 885.90 (18" RCP-SE)	#612 6' DIA. MANHOLE VAH R 1772 891.45 891.02
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DRAWING 10-2 STO VERTICA HORIZON 915 910 905 900	28 ON SHEET C8.4 RMPRC L SCALE: 1" NTAL SCALE: NTAL S	DFILE = 5' 1" = 50' 1" = 50' 883 883 883 883 883 883 883 88			INV OUT: 887.05 (15" RCP-SE)	#621 4' DIA MANHOLE NH R-4342 90.40 889.55 I: 886.60 (15" RCP-NW I: 886.60 (15" RCP-F)	INV OUT: 886.40 (18" RCP- STR. #620 4' DIA MANHOLE NEENAH R-3501-N TC: 891.17 891.17	IN: 886.30 (18" RCP-N) 880 OUT: 886.20 (18" RCP-SE) 1941 DIAMANHOLE R-3501-N	891.11 891.05 -IN:- <u>886.00-(</u> 18"-RCP-NW)-8 OUT: 885.90 (18" RCP-SE)	STR. #612 6' DIA. MANHOLE NEENAH R 1772 TC: 891.45 891.02
DRAWING 10-2 STO VERTICA HORIZON 915 910 905 900	28 ON SHEET C8.4 RMPRC L SCALE: 1" NTAL SCALE: NTAL S	DFILE = 5' 1" = 50' 1" = 50' 883 883 883 883 883 883 883 88			INV OUT: 887.05 (15" RCP-SE)	STR. #621 4' DIA MANHOLE NEENAH R-4342 TC: 890.40 889.55 TC: 890.40 889.55 INV INV INV IN: 886.60 (15" RCP-NW	INV OUT: 886.40 (18" RCP- STR. #620 4' DIA MANHOLE NEENAH R-3501-N TC: 891.17 891.17	IN: 886.30 (18" RCP-N) 880 OUT: 886.20 (18" RCP-SE) 1941 DIAMANHOLE R-3501-N	IC: 891.05 INV-IN:-886.00-(18"- RCP-NW)-8 INV OUT: 885.90 (18" RCP-SE)	F2 F3 F3 <thf3< th=""> F3 F3 F3<!--</td--></thf3<>
DRAWING 10-2 STO VERTICA HORIZON 915 910 905 900 895	28 ON SHEET C8.4 RMPRC L SCALE: 1" NTAL SCALE: NTAL S	DFILE = 5' 1" = 50' 1" = 50' 883 883 883 883 883 883 883 88		STR #622 2'X2' BOX NEENAH R-4342 TC: 891.90 890.92 ITC: 891.50 880.92 NW 886.87		A STR. #621 4' DIA MANHOLE 73 NEENAH R-4342 R 73 TC: 890.40 889.55 1NV <in:< td=""> 886.60 (15" RCP-NW</in:<>	INV OUT: 886.40 (18" RCP- STR. #620 4' DIA MANHOLE NEENAH R-3501-N TC: 891.17 891.17	IN: 886.30 (18" RCP-N) 880 OUT: 886.20 (18" RCP-SE) 1941 DIAMANHOLE R-3501-N	IC: 891.05 INV-IN:-886.00-(18"- RCP-NW)-8 INV OUT: 885.90 (18" RCP-SE)	STR. #612 6' DIA. MANHOLE NEENAH R 1772 TC: 891.45 891.02
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DRAWING 10-2 STO VERTICA HORIZON 915 910 905 900 895 890 885	28 ON SHEET C8.4 RMPRC L SCALE: 1" NTAL SCALE: NTAL S	FILE = 5' 1" = 50' I" = 50' III (: 895.10 881.88 III (: 10.10 100.11 II	INV E.EV: 88	STR #622 2'X2' B0X NEENAH R-4342 TC: 891.00 TC: 891.00 890.92 ITC: 892.45 NW		NM STR. #621 4" DIA MANHOLE NEENAH R-4342 NEENAH R-4342 0.0 100 101 101 0.1 880.55 101 101 0.1 100 101 101 0.1 100 101 101 0.1 100 101 101 0.1 100 101 101 0.1 100 101 101 0.2 23 100 101 0.1 100 101 101 0.1 100 101 101	C ²	INV IN: 886.30 (18" RCP-N) 88 INV OUT: 886.30 (18" RCP-SE) INV OUT: 886.20 (18" RCP-SE)	N N N N N N N N N N N N N N N N	CEE 21 CEE 25 CEE 25
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DRAWING 10-2 STO VERTICA 915 910 905 900 895 890 885 880	28 ON SHEET C8.4 RMPRC L SCALE: 1" NTAL SCALE: NTAL S	FILE = 5' 1" = 50' I" = 50' III (: 895.10 881.88 III (: 10.10 100.11 II	INV E.EV: 88	STR #622 2'X2' B0X NEENAH R-4342 TC: 891.00 TC: 891.00 890.92 ITC: 892.45 NW		NM STR. #621 4" DIA MANHOLE NEENAH R-4342 NEENAH R-4342 0.0 100 101 101 0.1 880.55 101 101 0.1 100 101 101 0.1 100 101 101 0.1 100 101 101 0.1 100 101 101 0.1 100 101 101 0.2 23 100 101 0.1 100 101 101 0.1 100 101 101	C ²	INV IN: 886.30 (18" RCP-N) 88 INV OUT: 886.30 (18" RCP-SE) INV OUT: 886.20 (18" RCP-SE)	N N N N N N N N N N N N N N N N	CEE 21 CEE 25 CEE 25

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			STC	DRM SEWER S	TRUCTURE DAT	A TABLE		······································		REVISIONS
in the second second A second seco A second seco	STR. # TC	INV. IN INV. OUT (ELEV.)	PIPE IN DIA. (INCH)	PIPE OUT DIA. (INCH)	PIPE IN PIPI MATERIAL MA	E OUT S TERIAL	STR. & CASTING TYPE	DETAIL REFERENCE		DATE DESCRIPTION BY
	610 886.92	883.50 (E)	42"		RCP		END SECTION	SEE DETAIL SHEET C8.3	KNOW WHAT'S BELOW.	07/02/18 REVISED PER TAC DC COMMENTS
10' ASPHALT PATH	611 892.09		36"	42"			DIVERSION MANHOLE NEENAH R-1772	SHEET C8.2	CALL BEFORE YOU DIG. Call 811 or 800-382-5544 Before you Dig!	08/02/18 REVISED PER TAC DC COMMENTS
	612 891.45	883.95 (E) 885.65 (NW) 883.95 (W)	36" 18"	36"	RCP RCP		6' DIA. MANHOLE NEENAH R-1772	SEE DETAIL SHEET C8.6		09/12/18 REVISED SUBDIVISION NAME & STREET NAME DC
BIT STATES TO BELLE	613 889.40		36"	36"			5' DIA. MANHOLE NEENAH R-4342	SEE DETAIL SHEET C8.6	Pipe Table	01/25/19 RECORD DRAWING SD
	614 890.69	884.35 (SE) 885.75 (E) 884.35 (W)	36" 15"	36"			6' DIA. MANHOLE NEENAH R-1772	SEE DETAIL SHEET C8.6	UPSTREAM TO PIPE PIPE DOWNSTREAM LENGTH (FT) DIA. (IN)	01/28/19 REVISED ENTRY SIGN KM FOOTPRINT COLORD
				18 "			4' DIA. MANHOLE NEENAH R-3501-N 4' DIA. MANHOLE	SEE DETAIL SHEET C8.6	611-610 165 42" 612-611 22 36"	02/27/19 ADDED MOUNDS TO COMMON AREA "A" KS
	620 891.11		18"	18"		NOF N	NEENAH R-3501-N	SEE DETAIL SHEET C8.6 SEE DETAIL	613–612 81 36"	
$\frac{16'}{10'} \frac{24'}{24'}$	621 890.40	886.60 (E)	10	18"	RCP		4' DIA. MANHOLE NEENAH R-4342 2'X2' BOX	SHEET C8.6	614-613 125 36" 619-612 46 18"	HWC ENGINEERING
		887.15 (NW) 887.05 (SE)	15"	15"			NEENAH R-4342 2'X2' BOX	SHEET C8.3	620-619 32 18" 621-620 23 18"	ENGINEERING
	623 892.10 625 891.54	888.00 (SE) 887.30 (E) 887.10 (W)	12"	15" 15"			NEENAH R-4342	SEE DETAIL SHEET C8.3 SEE DETAIL	622-621 120 15"	INDIANAPOLIS - TERRE HAUTE LAFAYETTE - MUNCIE - NEW ALBANY
	626 891.54	887.50 (L) 887.50 (W)		12"		· · ·	NEENAH R-3501-N DOUBLE CURB INLET NEENAH R-3501-N	SHEET C8.3 SEE DETAIL SHEET C8.3	623-622 154 15" 625-621 107 15"	www.hwcengineering.com
20 55.0 kUE 10' 5.5.0 kUE 10' 5.5.0 kUE 10' 5.5.0 kUE 10' 5.5.0 kUE 10' 5.5.0 kUE	628 890.20	886.05 (NE) 885.85 (W)	12"	15"	RCP	DOD D	DOUBLE CURB INLET NEENAH R-3501-N	SEE DETAIL SHEET C8.3	626-625 50 12"	
G21 CHENILLE 2 G20 CHENILLE 2	629 890.20	886.20 (SW)	-	12"		POP D	OUBLE CURB INLET NEENAH R-3501-N	SEE DETAIL SHEET C8.3	628-614 20 15" 629-628 32 12"	
DRIVE BLVD. is in the second s	650 885.25	884.00 (NW)	12"		RCP		END SECTION	SEE DETAIL SHEET C8.3	651-650 54 12"	
B'DI. WATERLINE TO A SO TO A S	651 889.50	885.00 (SE)		12"		RCP	2'X2' BOX NEENAH R-4342	SEE DETAIL SHEET C8.3		
TUTATION SSDAULE			**==~~		A 14/15 1 C ??				BENCHMARK INFORMATION:	
612 <u>612</u> <u>15</u> <u>0000</u> <u>15</u> <u>1000</u> <u>15</u> <u>1000</u> <u>15</u> <u>1000</u> <u>10000</u> <u>1000</u> <u>1000</u> <u>1000</u> <u>1000</u>	CERTIFIC	CATION FOR	RECC		AWING				NOTE: ELEVATION INFORMATION SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BASED UPON GPS OBSERVATIONS PROCESSED BY THE NATIONAL GEODETIC SERVICE (NGS) UTILIZING AN ON-LINE POSITIONING USER SERVICE (OPUS) SOLUTION FROM OBSERVATIONS ON CONTROL POINT #100 (SEE BELOW).	
	CERTIFIED BY:	LUKE A. JAHN		- JUNIKE	A. JAH		GRAPHIC	SCALE	CONTROL POINT #100 (PRIMARY BENCHMARK) - 5/8-INCH REBAR	
	135 N. F	HWC ENGINEERING PENNSYLVANIA STREET, SUITE			No.	0'	50'	100' 15	50' THE SOUTH OF THE MAIN HOUSE, APPROXIMATELY 75 FET WEST OF THE WEST-MOST TREE LINE ALONG THE EAST SIDE OF THE SUBJECT TRACT, AND APPROXIMATELY 400 FEET SOUTH OF THE RAIL FENCE ALONG THE SOUTH LINE OF THE GRASS FIELDS. ELEVATION: 892.72 (NAVD 88)	
	(317) 3	NDIANAPOLIS, INDIANA 46204 147–3663 FAX (317) 347-	-3664				(IN FEI	ET)	CONTROL POINT #101- 5/8-INCH REBAR WITH RED PLASTIC CAP	L R
25, B, C,	and lengths of pipe.	ication only for top of casting, inv Slope percentage represents a cal	vert elevations Iculated figure	DATE: 4/	VDIANA				AND 200 FEET WEST OF THE ASPHALT DRIVEWAY FOR THE SUBJECT TRACT, APPROXIMATELY 15 FEET NORTH OF THE NORTH EDGE OF PAVEMENT OF W. 131ST STREET AND 31.5 FEET SOUTHEAST OF THE SOUTHWEST CORNER OF AN ASPHALT SIDEWALK. ELEVATION: 896.56 (NAVD 88)	
	and is for general inf	formation only.							CONTROL POINT #102- MAG NAIL WITH WASHER STAMPED "HWC RANDOM POINT" SET FLUSH WITH THE ROAD SURFACE AT THE SOUTH END OF THE MEDIAN AT THE INTERSECTION OF HANSEN	
									LANE AND W. 131ST STREET, APPROXIMATELY 4 FEET SOUTHEAST FROM THE BACK OF CURB OF THE MEDIAN AND 37.3 FEET SOUTHEAST OF THE STOP SIGN AT THE INTERSECTION. ELEVATION: 895.17 (NAVD 88)	
			enti sul contra	and the second second			and the second second second			
								na serie (s. 1911 - Santa Santa 1919 - Santa S	ELEVATION: 895.17 (NAVD 88) HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NAD83	AN BRR
									HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NAD83	
									HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3	PLA PLA
									HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 — — EXISTING GRADE PROPOSED GRADE	PLA PLA
									HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 — — — EXISTING GRADE — PROPOSED GRADE — — 10-YEAR HGL	COPPER ARMEL, IN EWER PLA
									HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 — — EXISTING GRADE PROPOSED GRADE	OPPER MEL, IN ER PLA
		P P	33.5	3 2			84.35 1440		HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 — — — EXISTING GRADE — PROPOSED GRADE — — 10-YEAR HGL 915	COPPER ARMEL, IN EWER PLA
() 884.1 47 87.22 87.22 87.20 387.50		WANHO	E) 883.91 2—W) 883.51	33.98 885.8 884.	19		E) 884.40 885.78 W) 884.35		HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3	COPPER ARMEL, IN EWER PLA
P-W) 887.50		SION MANHO	RCP-E) 883.91 2" RCP-W) 883.51	-E) 883.98 -NW) 885.82 P-W) 884.11	84.21 884.1		HOLE PP-SE) 88 PP-E) 885 RCP-W)-8	() 885.89 () 875.89 () 875.89 () 875.89 () 875.89 () 875.89 () 875.89 () 875.89 () 875.89 () 875.89 () 875.89 () 875.89 () 875.89 () 87	HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 	COPPER ARMEL, IN EWER PLA
(36" RCP-W) 884.1 HOLE HOLE RCP-S) 886.47 P-NW) 886.47 RCP-S) 886.45 RCP-S) 886.32 CURB INLET CURB INLET CURB INLET CURB INLET CURB INLET CURB INLET CURB INLET		DIVERSION MANHO	0.88 (36" RCP-E) 883.91 0 (42" RCP-W) 883.51 0HOLE	RCP-E) 883.98 RCP-NW) 885.8 5" RCP-W) 884.	LE -E) 884.21 P-W) 884.1		MANHOLE 5" RCP-SE) 88 5" RCP-E) 885 (36" RCP-E) 885 (36" RCP-W)-8	P-NE) 885 P-NE) 885 RCP-W) 88	HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3	COPPER ARMEL, IN EWER PLA
35:35 (36" RCP-W) 884.1 MANHOLE 886.47 S 886.47 RCP-NW) 886.47 886.47 RCP-S) 886.45 1152 (18" RCP-S) 886.45 887.32 (18" RCP-S) 886.45 11-1 1-N 887.33 0 (15" RCP-W) 887.33 0 (15" RCP-W) 887.33 0 (12" RCP-W) 887.50 0 (12" RCP-W) 887.50		DIVERSION MANHO	P 890.88 3-90 (36" RCP-E) 883.91 383.70 (42" RCP-W) 883.51 A. MANHOLE	22 RCP-E) 883.98 36" RCP-E) 883.98 18" RCP-NW) 885.8 (36" RCP-W) 884.	ANHOLE RCP-E) 884.21 5" RCP-W) 884.1		MANHOLE 5" RCP-SE) 88 5" RCP-E) 885 (36" RCP-E) 885 (36" RCP-W)-8	CP-NE) 885 RCP-N) 885 RCP-W) 88	HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 — — — EXISTING GRADE — PROPOSED GRADE — — 10-YEAR HGL 915 0 910 0 910 0 905	TORM SEWER PLA
JT: 883-95 (36" RCP-W) 884.1 JIA MANHOLE 886.47 JA2 883.55 886.47 Ge0 (15" RCP-NW) 886.45 Ge0 (15" RCP-S) 886.45 Ge0 (15" RCP-S) 886.45 Ge0 (15" RCP-S) 886.45 Ge0 (15" RCP-S) 886.45 Ge1 (15" RCP-S) 886.32 Ge1 (15" RCP-S) 887.33 B87.10 (15" RCP-W) 887.33 B87.10 (15" RCP-W) 887.33 B87.10 (15" RCP-W) 887.33 B87.50 115" RCP-W) 887.50 B87.50 112" RCP-W) 887.50 B87.50 (12" RCP-W) 887.50	88 83 83	DIVERSION MANHO	P 890.88 3-90 (36" RCP-E) 883.91 383.70 (42" RCP-W) 883.51 A. MANHOLE	22 RCP-E) 883.98 36" RCP-E) 883.98 18" RCP-NW) 885.8 (36" RCP-W) 884.	ANHOLE RCP-E) 884.21 5" RCP-W) 884.1		#614 6' DIA MANHOLE H R-1772 A A 90.69 891.20 S S 1772 A A A 1884.35 (36" RCP-SE) 88 17: 884.35 (15" RCP-E) 885 17: 884.35 (36" RCP-W)-8 A	3501-N 890.15 65 (12" RCP-NE) 885 85.85 (15" RCP-NE) 885 85.85 (15" RCP-W) 88	HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 — — — EXISTING GRADE — PROPOSED GRADE — — 10-YEAR HGL 915 0 910 0 910 0 905	TORM SEWER PLA
0UT: 883:95 (36" RCP-W) 884.1 1 4' DIA MANHOLE 884.1 1 4' DIA MANHOLE 886.47 1 4' DIA MANHOLE 886.45 1 889.55 886.45 886.32 1 889.55 886.45 886.32 1 887.40 (18" RCP-E) 887.33 1 887.301-N 887.33 887.33 1 887.301-N 887.33 887.33 1 887.301-N 887.33 887.33 1 887.301-N 887.35 887.30 1 887.301-N 887.35 887.50 1 887.50 12" RCP-W) 887.50 1 887.50 12" RCP-W) 887.50 1 887.50 12" RCP-W) 887.50	883.	DIVERSION MANHO	P 890.88 3-90 (36" RCP-E) 883.91 383.70 (42" RCP-W) 883.51 A. MANHOLE	22 RCP-E) 883.98 36" RCP-E) 883.98 18" RCP-NW) 885.8 (36" RCP-W) 884.	ANHOLE RCP-E) 884.21 5" RCP-W) 884.1		#614 6' DIA MANHOLE H R-1772 A A 90.69 891.20 S S 1772 A A A 1884.35 (36" RCP-SE) 88 17: 884.35 (15" RCP-E) 885 17: 884.35 (36" RCP-W)-8 A	3501-N 890.15 65 (12" RCP-NE) 885 85.85 (15" RCP-NE) 885 85.85 (15" RCP-W) 88	HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 — — EXISTING GRADE — — PROPOSED GRADE — — 10-YEAR HGL 915 CC 988 0 0 0 0 0 0 0 0 0 0 0 0 0	TORM SEWER PLA
INV OUT: 883.95 (36" RCP-W) 884.1 #621 4' DIA MANHOLE 886.45 VAH R-4342 889.55 886.45 WAH R-4342 889.55 886.45 B96.40 (15" RCP-E) 886.45 IN: 886.60 (15" RCP-E) 886.45 IN: 886.60 (15" RCP-E) 886.45 IN: 886.60 (15" RCP-E) 886.32 IN: 886.60 (15" RCP-E) 886.33 IN: 886.60 (15" RCP-E) 886.33 OUT: 886.40 (15" RCP-E) 887.33 VN 0UT: 887.50 10 IN: 865.60 (12" RCP-W) 887.50 VV 0UT: 887.50 10 VV 0UT: 887.50 11	883.	DIVERSION MANHO	P 890.88 3-90 (36" RCP-E) 883.91 383.70 (42" RCP-W) 883.51 A. MANHOLE	RCP-E) 883.98 RCP-NW) 885.8 5" RCP-W) 884.	ANHOLE RCP-E) 884.21 5" RCP-W) 884.1		STR. #614 6' DIA. MANHOLE NEENAHI R-1772 MANHOLE NEENAHI R-1772 RANHOLE IC: 890.69 891.20 INV <in:< td=""> 884.35 (36" INV<in:< td=""> 885.75 (15" INV<0UT:</in:<></in:<>	#020 0000LE UORD INLE 890:26 890.15 IN: 886.05 (12" RCP-NE) 885 0UT 885.85 (15" RCP-NE) 885 0UT 885.85 (15" RCP-W) 88 STR. #629 DOUBLE CURB INL	HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 — — EXISTING GRADE — — PROPOSED GRADE — — 10-YEAR HGL 915 CC 988 0 0 0 0 0 0 0 0 0 0 0 0 0	TORM SEWER PLA
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100 100 <td>9 (42" RCP) 883.</td> <td>FINISH GRADE ELEV: 891.6± SSD 8.0±</td> <td>TC: 892.09 890.88 INV IN: 883.94 (36" RCP-E) 883.91 INV OUT: 883.70 (42" RCP-W) 883.51 STR. #612 6' DIA. MANHOLE 883.51 N NEENAH R-1772 883.51</td> <td>22 RCP-E) 883.98 36" RCP-E) 883.98 18" RCP-NW) 885.8 (36" RCP-W) 884.</td> <td>ANHOLE RCP-E) 884.21 5" RCP-W) 884.1</td> <td></td> <td>STR. #614 6' DIA. MANHOLE NEENAHI R-1772 MANHOLE NEENAHI R-1772 RANHOLE IC: 890.69 891.20 INV<in:< td=""> 884.35 (36" INV<in:< td=""> 885.75 (15" INV<0UT:</in:<></in:<></td> 884.35 (36" RCP-E) 885 INV<0UT:	9 (42" RCP) 883.	FINISH GRADE ELEV: 891.6± SSD 8.0±	TC: 892.09 890.88 INV IN: 883.94 (36" RCP-E) 883.91 INV OUT: 883.70 (42" RCP-W) 883.51 STR. #612 6' DIA. MANHOLE 883.51 N NEENAH R-1772 883.51	22 RCP-E) 883.98 36" RCP-E) 883.98 18" RCP-NW) 885.8 (36" RCP-W) 884.	ANHOLE RCP-E) 884.21 5" RCP-W) 884.1		STR. #614 6' DIA. MANHOLE NEENAHI R-1772 MANHOLE NEENAHI R-1772 RANHOLE IC: 890.69 891.20 INV <in:< td=""> 884.35 (36" INV<in:< td=""> 885.75 (15" INV<0UT:</in:<></in:<>	AIR: #020 DOUBLE OUDLE	HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 Image: Coordinates-East z	COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER COPPER
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M STR. #621 4' DIA. MANHOLE RCP-W) 884.1 NN OUT: B85.47 B86.47 B86.47 NN VIL: B86.46 NN NIL: B86.47 NN VIL: B86.47 B86.47 B86.47 NN VIL: B86.46 NN NIL: B86.47 NN VIL: B86.46 NN NIL: B86.47 NN VIL: B86.46 NN NIL: B86.45 NN VIL: B97.50 CIS RCP-W) NN VIL: B97.50 NN NIL: RCP-E) NN VIL: B97.50 NN NIL: RCP-E) NN VIL: B97.50 RCP-W) B88.3.33 NN VIL: B97.50 RCP-E) B87.20 NN VIL: B97.50 RCP-E) B87.50 NN VIL: B97.50 RCP-E) B87.50 NN VIL: B97.50 RCP-E) B87.50 NN VIL: B97.50 RCP-E) RCP-E) NN VIL: B97.51 RCP-E) RCP-E) NN VIL: RCP-E) RCP-E) RCP-E	M. #010 ENU SECTION IN: 883.50 (42" RCP) 883. IN: 883.50 (42" RCP) 883. IN: 883.50 (42" RCP) 883. IN: 10.100 (42" RCP) 883.	FINISH GRADE ELLEV: 891 6± SSD 8.0±	Image: Construction TC: 892:09 890.88 S83.91 INV IN: 883.90 (36" RCP-E) 883.91 INV OUT: 883.70 (42" RCP-W) 883.51 STR. #612 6" DIA. MANHOLE NEENAH NEENAH R-1/772 NEENAH	0 I/ IC: 891.45 891.02 883.98 1 INV IN: 883.95 (36" RCP-E) 883.98 1 INV IN: 885.65 (18" RCP-NW) 885.85 1 INV OUT: 883.95 (36" RCP-W) 885.41	Image: STR. #613 5' DIA. MANHOLE STR. #613 5' DIA. MANHOLE N NEENAH R-4342 N TC: 889.40 889.43 NV INV IN 884.10 (36" RCP-E) 884.21 NV OUT: 884.10 (36" RCP-W) 884.11		A STR. #614 6' DIA MANHOLE 9889.0 9889.0 9889.0 981.20 881.20 1772 1772 1772 884.35 885.75 1772 1NV 1NV 884.35 6.6" 885 18 1NV 0UT: 884.35 6.6" 885 18 1NV 0UT: 884.35 6.6" 885	0 0 <td>UBIZONTAL INCOMMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 ————————————————————————————————————</td> <td>COPPER STORM SEWER PLA</td>	UBIZONTAL INCOMMATION: STATE PLANE COORDINATES-EAST ZONE, NADB3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 ————————————————————————————————————	COPPER STORM SEWER PLA
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LEVATIONS BE	THE CONTRACTORS RESPONSIBILIT FORE CONSTRUCTION BEGINS.				882	15' D.&U.E.		
PROVED BY MATIONS FR	EWER SYSTEM SHALL BE CONST THE CITY OF CARMEL ON THE OM THE APPROVED DESIGN SHA S OR DIFFICULTY DURING CONST A EPON A DESIGNATED REPRES	FINAL APPROVED CONSTRUCTIO LL ONLY BE PERMITTED DUE T TRUCTION AND WILL REQUIRE F	N PLANS.	609	000		<u>\$\$\$6 8.51. 17</u>	8
DDITION TO S F ANY SUCH S-BUILT/REC	AL FROM A DESIGNATED REPRES SUPPLEMENTAL APPROVAL BY TH DEVIATION SHALL BE INCLUDED WORD DRAWINGS SUBMITTED FOR SIGN SLOPES UDENTIFIED AS CEN	E DESIGN ENGINEER. AN EXP AS A REQUIREMENT ON RELEASE OF PERFORMANCE G	LANATION J	890	801	4		
ss or 10 f rtification intractor 1	SIGN SLOPES IDENTIFIED AS GEN TPS OR GREATER (AT FULL FLOW AT THE TIME OF CONSTRUCTION S INSTRUCTED TO AS-BUILT E	W CAPACITY) SHALL REQUIRE A I, PRIOR TO BACKFILLING THE ACH SECTION OF STORM PIPE	S-BUILT PIPE. THE AS IT IS	ALC: COD		TH		
io earth dis	ED TO ENSURE COMPLIANCE WIT THE CITY OF CARMEL. TURBING ACTIVITY MAY COMMENC		4			15 D.M.E.		3
	PERMIT. TER DRAINAGE CASTINGS SHALL UMP NO WASTE"	BE LABELED WITH ENVIRONMEN	ITAL					
ALL CONCRETE	E PIPE JOINTS SHALL BE CONTIN TO ASTM C 443	NUOUS O-RING RUBBER GASKE	л с	BUFFEK TANU 890 81	55.1			
FOR STORM S	CAL SEPARATION MUST BE MAINT SEWER BACKFILL SPECIFICATIONS, NRD DRAWING 10-28 ON SHEET	, REFER TO STORM SEWER TRI	INGS.	8				
JETAIL STANDA	NCU DRAWING IU-20 UN SHELI	U0.4			ie.	4	15' D. 4U.E	
	DRM PROFIL CAL SCALE: 1" = 5' ONTAL SCALE: 1" =							
	14 6' DIA. MANHOLE R-1772	R+1772 06 889.78 384.45 (36" RCP-E) 884.46 386.50 (15" RCP-S) 886.41 884.45 (36" RCP-NW) 884.46 884.45 (36" RCP-NW) 884.46	R. #631 4' DIA ENAH R-1772 : 892.07 891.5 / IN: 887.10 (1	CP-E) 887.40 CP-E) 887.40 RCP-W) 887.40	STR. #633 2'X2' BOX VEENAH-R=3501-N VIC. 891.53 TC: 887.59 NV<0UT:	5 5' DIA. MAN R-1772 06 889.78 384.45 (36" R(386.50 (15" R(I: 884.45 (36'-RCP-NW) 884.46	
915 - 905 -	772 .	" RCP-E) 884.46 36" RCP-S) 886.41 (CP-S) 886.41 (CP-N) 884.46 (CP-N) 884.46 (CP-N) 884.46	28 28 28 28 28 15° 15° 15° 15° 10° 10° 10° 10° 10° 10° 10° 10	V - UUI: 0007-100 (10 - NUE - NU - 0000-000- 322 2'X2' BOX R=3501-N -53 891.40 887.40 - 887.40 - 887.40 - 887.40 - 887.40	RCP	A. MANHOLE 78 (36" RCP-E) 884.46 (15" RCP-S) 886.41	OUT: 884.45 (36 RCP-NW) 884.46	
915 - 905 -	14 6' DIA. MANHOLE R-1772	R+1772 06 889.78 384.45 (36" RCP-E) 884.46 386.50 (15" RCP-S) 886.41 884.45 (36" RCP-NW) 884.46 884.45 (36" RCP-NW) 884.46	28 28 28 28 28 28 28 28 28 28	CP-E) 887.40 CP-E) 887.40 RCP-W) 887.40	#633 2'X2' BOX AH-R=3501-N 391.53 891.50 0UT: 887.50 (12" RCP-W)	5 5' DIA. MANHOLE R-1772 06 889.78 384.45 (36" RCP-E) 884.46 386.50 (15" RCP-S) 886.41	OUT: 884.45 (36 RCP-NW) 884.46	
915 - 905 - 900 -	14 6' DIA. MANHOLE R-1772	,002 NEENAH R+1772 NEENAH R+1772 IC: 891.06 889.78 INV IN: 884.45 (36" RCP-E) 884.46 INV IN: 886.50 (15" RCP-S) 886.41 INV OUT: 884.45 (36" RCP-NW) 884.46 INV OUT: 884.45 (36" RCP-NW) 884.46	STR. #631 4' DIA. MANHOLE NEENAH R-1772 TC: 892.07 891.58 INV IN: 887.10 (15" RCP-E) 80	STR. #632 2'X2' BOX 000.00 NEENAH R-3501-N 000.00 Inv NEENAH R-3501-N TC: 891.55 891.40 Inv NI 887.40 Inv 001- 887.40	STR. #633 2'X2' BOX NEENAH-R-3501-N TC: 891.50 TC: 891.53 891.50 INV<0UT:	STR: #615 5' DIA. MANHOLE NEENAH R-1772 NANHOLE NEENAH R-1772 R89.78 TC: 891.06 889.78 INV IN: 884.45 INV IN: 886.50 INV IN: 886.50	OUT: 884.45 (36 RCP-NW) 884.46	
VERTIC HORIZI 915 - 910 - 905 - 900 - 895 -	14 6' DIA. MANHOLE R-1772	,002 NEENAH R+1772 NEENAH R+1772 IC: 891.06 889.78 INV IN: 884.45 (36" RCP-E) 884.46 INV IN: 886.50 (15" RCP-S) 886.41 INV OUT: 884.45 (36" RCP-NW) 884.46 INV OUT: 884.45 (36" RCP-NW) 884.46	STR. #631 4' DIA. MANHOLE NEENAH R-1772 TC: 892.07 891.58 INV IN: 887.10 (15" RCP-E) 80	STR. #632 2'X2' BOX 000.00 NEENAH R-3501-N 000.00 Inv NEENAH R-3501-N TC: 891.55 891.40 Inv NI 887.40 Inv 001- 887.40	STR. #633 2'X2' BOX STR. #633 2'X2' BOX NEENAH R-3501-N TC: 891.53 891.50 INV 0UT: 887.59 (12" RCP-W) GSS _9 .52 _53 _53 _54 _54 _556 _557 _557	STR: #615 5' DIA. MANHOLE NEENAH R-1772 NANHOLE NEENAH R-1772 R446 TC: 894.45 (36" RCP-E) NV INV 886.50 (15" RCP-S)	ISH GRADE V 890.5±	
VERTIC HORIZI 915 - 910 - 905 - 900 - 895 -	14 6' DIA. MANHOLE R-1772	,002	STR. #631 4' DIA. MANHOLE NEENAH R-1772 TC: 892.07 891.58 INV IN: 887.10 (15" RCP-E) 80	STR. #632 2'X2' BOX NEENAH R-3501-N NEENAH R-3501-N NEI NEENAH TC: 891.40 INV IN: 887.40 INV OUT- 887.40 INV OUT- 887.40	(m) (m) (m)	STR: #615 5' DIA. MANHOLE NEENAH R-1772 NANHOLE NEENAH R-1772 R446 TC: 894.45 (36" RCP-E) NV INV 886.50 (15" RCP-S)	110 NU 110 NU 110 NU 110 NU 110 NU 110 110 110 110 110 110 110 11	
915 910 900	SIR. #614 6' DIA. MANHOLE SIR. #614 6' DIA. MANHOLE Inv NEENAH R-1772 TC: 890.69 891.20 TC: 890.69 891.20 TC: 890.69 891.20 TC: 890.69 891.20 TC: 895.75 (15" RCP-E) 884.35 INV <in:< td=""> 884.35 INV<in:< td=""> 884.35 STR. #615 5' DIA. MANHOLE</in:<></in:<>	50'	НИСТ	STR. #632 2'X2' BOX NEENAH R-3501-N NEENAH R-3501-N NEI NEENAH TC: 891.40 INV IN: 887.40 INV OUT- 887.40 INV OUT- 887.40	STR. #633 2'X2' BOX STR. #633 2'X2' BOX NEENAH R-3501-N TC: 891.53 891.50 INV 0UT: 887.59 (12" RCP-W) GSS _9 .52 _53 _53 _54 _54 _556 _557 _557	# STR. #615 5' DIA. MANHOLE NEENAH R-1772 NEENAH R-1772 NC: 891.06 NV IN INV IN INV IN: R4.45 (15" R4.46	1100 1100	887.6± INV EL
915 905 900 895 890	STR. #614 6' DIA. MANHOLE STR. #614 6' DIA. MANHOLE STR. #614 6' DIA. MANHOLE TC: 890.69 891.20 TC: 890.69 891.20 ITC: 890.69 891.20 INV <in:< td=""> 884.35 (36' RCP-E) INV<in:< td=""> 884.35 (36' RCP-E) INV<in:< td=""> 884.35 (36' RCP-E) INV<out:< td=""> 884.35 (36' RCP-W) STR. #615 5' DIA. MANHOLE STR. #615</out:<></in:<></in:<></in:<>	50'	ЭНОНИЧИ ЭНОНИЧИ ЭНОНИЧИ ЭНОНИЧИ НИЦ НОЧИ НОЧИ ЭНОНИЧИ ЭНОНИЧИ НОНИЧИ НО 10 10 10 10 НО 10 10 10 10 10 10 НО 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	STR. #632 2'X2' BOX STR. #632 2'X2' BOX NEENAH R=3501=N NEENAH R=3501=N NN< NUT:	M -d M -d X -d X -d W -021 W -	# # F STR: #615 5' DIA. MANHOLE MANHOLE NEENAH R-1772 NEENAH R-1772 TC: 891.06 NO NN IN: 884.45 NN IN: 886.50 (15" RCP-S) 886.41	9 4 4 4 4 4 4 4 4 4 4 4 4 4	
915 905 900 895 890	STR. #61	50'	ЭПОНИЧ ЭПОНИЧ НОНИЧ НОНИЧ НОНИЧ НОНИЧ <td< td=""><td>MAIN Ont-root (12) NUT: 007-00 (12) NUT: 007-00 (12) STR. #632 2'X2' BOX STR. #632 2'X2' BOX NEENAH R=3501-N NEENAH R=3501-N TC: 891-55 891.40 S87.40 INV IN: 887.40 NV OUT: 887.40</td><td>M - M - M - M - M - M - M 021 M - M - M - M 021 M -</td><td>B84.45 ISP. 1772 TC: 891.06 TC: 891.06 NEENAH R-1772 TC: 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45</in:<></in:<></in:<></in:<></td><td>9 9 4 8 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9</td><td><u>B87.6±</u><u>INV EL</u> <u>195</u>LF OF 6″ RCP</td></td<>	MAIN Ont-root (12) NUT: 007-00 (12) NUT: 007-00 (12) STR. #632 2'X2' BOX STR. #632 2'X2' BOX NEENAH R=3501-N NEENAH R=3501-N TC: 891-55 891.40 S87.40 INV IN: 887.40 NV OUT: 887.40	M - M - M - M - M - M - M 021 M - M - M - M 021 M -	B84.45 ISP. 1772 TC: 891.06 TC: 891.06 NEENAH R-1772 TC: 884.45 INV <in:< td=""> 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45</in:<></in:<></in:<></in:<>	9 9 4 8 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9	<u>B87.6±</u> <u>INV EL</u> <u>195</u> LF OF 6″ RCP
915 910 900 895 885	STR. #61	50'	ЭНОНИЧИ ЭНОНИЧИ ЭНОНИЧИ ЭНОНИЧИ НИЦ НОЧИ НОЧИ ЭНОНИЧИ ЭНОНИЧИ НОНИЧИ НО 10 10 10 10 НО 10 10 10 10 10 10 НО 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	STR. #632 2'X2' BOX STR. #632 2'X2' BOX NEENAH R=3501=N NEENAH R=3501=N NN< NUT:	M -d M -d X -d X -d W -021 W -	B84.45 ISP. 1772 TC: 891.06 TC: 891.06 NEENAH R-1772 TC: 884.45 INV <in:< td=""> 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45</in:<></in:<></in:<></in:<>	9 9 4 8 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9	195 LF OF 6" RCP 15% 0.07%
915 910 900 895 885	CAL SCALE: 1" = 5' ONTAL SCALE: 1" = 5' SIR. #614 HOLE B84:35 STR. #615 SIR. #615	50'	ЭНОНИЧИ ЭНОНИЧИ ЭНОНИЧИ ЭНОНИЧИ НИЦ НОЧИ НОЧИ ЭНОНИЧИ ЭНОНИЧИ НОНИЧИ НО 10 10 10 10 НО 10 10 10 10 10 10 НО 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	8". WATERMAIN STR. #632 2'X2' BOX NV ELEV: 885.0± STR. #632 2'X2' BOX NEENAH NEENAH R-3501-N NO NEENAH R-3501-N NO NEENAH R-3501-N NO NO NEENAH NO NEENAH R-3501-N NO NO NEENAH NO NO NEENAH NO NO NEENAH NO NO NEENAH NO NO NO NO NO NO NO NO NO NO NO NO	(M)	# # F STR: #615 5' DIA. MANHOLE MANHOLE NEENAH R-1772 NEENAH R-1772 TC: 891.06 NO NN IN: 884.45 NN IN: 886.50 (15" RCP-S) 886.41	9 9 4 8 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9	195 LF OF 6" RCP 15% 0.07%
VERTIC 915 910 905 900 895 895 885 880	CAL SCALE: 1" = 5' ONTAL SCALE: 1" = 5' SIR. #614 HOLE B84:35 STR. #615 SIR. #615	50'	ЭНОНИЧИ ЭНОНИЧИ ЭНОНИЧИ ЭНОНИЧИ НИЦ НОЧИ НОЧИ ЭНОНИЧИ ЭНОНИЧИ НОНИЧИ НО 10 10 10 10 НО 10 10 10 10 10 10 НО 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	8". WATERMAIN STR. #632 2'X2' BOX NV ELEV: 885.0± STR. #632 2'X2' BOX NEENAH NEENAH R-3501-N NO NEENAH R-3501-N NO NEENAH R-3501-N NO NO NEENAH NO NEENAH R-3501-N NO NO NEENAH NO NO NEENAH NO NO NEENAH NO NO NEENAH NO NO NO NO NO NO NO NO NO NO NO NO	M - A - A - A - B - C -	B84.45 ISP. 1772 TC: 891.06 TC: 891.06 NEENAH R-1772 TC: 884.45 INV <in:< td=""> 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45 INV<in:< td=""> 884.45</in:<></in:<></in:<></in:<>	9 9 4 8 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9	195 LF OF 6" RCP 15% 0.07%

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____000-12 27 13 26 14 (634) INV. IN INV. OUT PIPE (ELEV.) (ELEV.) DIA. (II C.A. "B" STR. # TC 25 614 890.69 884.35 (SE) 884.35 (W) ____ 615 891.06 884.45 (E) 884.45 (NW) 15 616 889.90 885.25 (E) 884.75 (W) 12 2 885.30 (W) 617 888.72 24 631 892.07 887.10 (E) 887.00 (N) 632 891.53 887.40 (E) 887.20 (W) 12 ______ 887.50 (W) 633 891.53 16 887.40 (N) 634 891.00 C.A. "B" 635 885.56 883.50 (E) 23 636 889.00 883.85 (E) 883.65 (W) 10' S.S.D.&U.E. L______ 15' D.&U.E. 1555 637 888.85 884.20 (E) 884.00 (W) 8" D.I. WATE N-W639 ______w-___ 638 888.35 885.00 (S) 884.80 (W) 12 - Part-56' R/W 3 2' CHENILLE DRIVE 639 891.70 887.50 (S) 887.40 (N) 22 640 891.70 887.70 (N) *16**中** CERTIFICATION FOR "RECORD DRAWING" EGISTERED N CERTIFIED BY: LUKE A. JAHN No. HWC ENGINEERING 135 N. PENNSYLVANIA STREET, SUITE 2800 INDIANAPOLIS, INDIANA 46204 (317) 347-3663 FAX (317) 347-3664 20900171 STATE OF NDIANA NDIANA NONAL NOTE: Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only. DATE: 4/14/2020 90 40 884.55 885.96 M) 884.6 . 883. 883. 0 R #636 DOUBLE CURB INLET W/68" S ENAH R-3287-10V S: 889.00 888.99 V IN: 883.65 (18" RCP-E) 883.85 V OUT: 883.65 (21" RCP-W) 883.79 STALL 30F SNOUT OIL & DEBRIS STOP STALL 30F SNOUT OIL & DEBRIS STOP STR. #637 DOUBLE CURB INLET NEENAH R-3501-N TC: 888.85 888.70 INV IN: 884.00 (15" RCP-E) 88410 INV OUT: 884.00 (18" RCP-W) 883. N 884.55 885.96 W) 884.6 - 2 -Ш Ш П П П HOLE -22 20 Ϋ́Ϋ́Ϋ́Υ R. #616 5' DIA. MA ENAH R-4342 889.90 890.45 in: 885.25 (36" f in: 886.30 (12" f out: 884.75 (36" iton
 STR.
 #634
 2'X2'
 BOX

 NEENAH
 R-4342
 TC:
 891.00

 TC:
 891.00
 887.40
 (12'

 INV
 OUT:
 887.40
 (12'
 RCP ANH 8 STR. #616 5' DIA. MA NEENAH R-4342 TC: 889:90 890.45 INV IN: 885.25 (36" F INV IN: 886.30 (12" R INV OUT: 884.75 (36" STR. NEEN INV INV SECT 36 (36 RCP <u>[]</u> 312 NAC: EEN INC: EEN INC: EEN INC: EEN 2.50 -----₽Ľ 35 #: FINISH-GRADE ELEV: 889.0± 6" SSD_____ ωž 6" SSD INV ELEV: 887.4± 6"_SSD____ LEV: 887.4± 177 and the second second _____6" SSD_____ 6" SSD NV ELEV: 885.5± ---------186 185 LF OF 0//// -----© 0.59% 0.81% · 1 ш STORM BOTTOM 140 142 L NP=883.50 -25 21 LF OF 36" RCP @ 0.24% **2.92%** | -----_____ ELEV: 882.7± -----54 54 LF OF 21" RCP - @ 0:28% 0.48% 882.06 _**₹**|2 -32-32-LF-0F-_____ 18"_RCP_ ____ @ 0.47% 0.34%

	D:	a Tabla		\sim		REVISIONS
	<u> </u>	PIPE	PIPE			DATE DESCRIPTION BY
	REAM TO ISTREAM L	ENGTH (FT)	DIA. (IN)		Forman	
61	5-614	39	36"			
	6–615 7–616	195 21	36" 36"	KNOW WHA		08/02/18 REVISED PER TAC DC
	7-616	21 151	36" 15"		ORE YOU DIG. 5544 Before you Dig!	09/12/18 REVISED SUBDIVISION NAME & STREET NAME DC
	52-631	21	15"		A	01/25/19 RECORD DRAWING SD
	3-632	32 185	12"			01/28/19 REVISED ENTRY SIGN KM
	6–635	185 54	12" 21"		$\mathbf{\nu}$	02/27/19 ADDED MOUNDS TO KS
·	636	32	18"		IC SCALE	COMMON AREA "A"
	8-637	142	15"	0' 50'	100' 150'	
	9-638 0-639	270 32	12" 12"	(TN 1	FEET)	SELA INAIA
					· · · · · · · · · · · · · · · · · · ·	
		WER STRUCT	1			INDIANAPOLIS - TERRE HAUTE
E IN (INCH)	PIPE OUT DIA. (INCH		PIPE OUT MATERIAL	STR. & CASTING TYPE	DETAIL REFERENCE SPECIAL NOTES	LAFAYETTE - MUNCIE - NEW ALBANY www.hwcengineering.com
		RCP		6' DIA. MANHOLE	SEE DETAIL	
36" 5"	36*	RCP	RCP	NEENAH R-1772	SHEET C8.6	
36 " 5"	36 "	RCP RCP	RCP	5' DIA. MANHOLE NEENAH R-1772	SEE DETAIL SHEET C8.6	
36" 2"	36"	RCP RCP	RCP	5' DIA. MANHOLE NEENAH R-4342	SEE DETAIL SHEET C8.6	
	36"		RCP	END SECTION	SEE DETAIL SHEET C8.3	
15"	15"	RCP	RCP	4' DIA. MANHOLE NEENAH R-1772	SHEET C8.6	
2"	15"	RCP	RCP	2'X2' BOX	SHEET C8.6	
	12"		RCP	NEENAH R-3501-N 2'X2' BOX	SEE DETAIL	
				NEENAH R-3501-N 2'X2' BOX	SHEET C8.3 SEE DETAIL	
	12"		RCP	NEENAH R-4342	SEE DETAIL SHEET C8.3 SEE DETAIL	H
21"		RCP		END SECTION DOUBLE CURB INLET W/68" SUMP	SHEET C8.3 SEE DETAIL INSTALL 30E SMOLIT	
18"	21"	RCP	RCP	NEENAH R-3287-10V	SHEET C8.3 SEE DETAIL SHEET C8.2 SEE DETAIL	PR
15"	18"	RCP	RCP	DOUBLE CURB INLET NEENAH R-3501-N	SHEET C8.3	
	15"	RCP	RCP	2'X2' BOX NEENAH R-4342	SEE DETAIL SHEET C8.3	
12"		a second s	1			
12" 12"	12"	RCP	RCP	4' DIA. MANHOLE W/38" SUMP NEENAH R-3501-N	SEE DETAIL INSTALL 18R SNOUT, SHEET C8.6 SEE DETAIL SHEET C8.2	
	12" 12"	RCP	RCP		SEE DETAIL SHEET C8.6 INSTALL 18R SNOUT, SEE DETAIL SHEET C8.2 SEE DETAIL SHEET C8.3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 EXISTING GRADE PROPOSED GRADE - 10-YEAR HGL	OPPER RUN MEL, INDIA RR PLAN AI
		RCP		NEENAH R-3501-N 2'X2' BOX NEENAH R-3501-N	SHEET C8.6 SEE DETAIL THIS SNOOT, SEE DETAIL SEE DETAIL SHEET C8.3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 EXISTING GRADE PROPOSED GRADE PROPOSED GRADE	I SEWER PLA
		RCP		NEENAH R-3501-N 2'X2' BOX NEENAH R-3501-N	SHEET C8.6 SEE DETAIL IN SINCE, SEE DETAIL SEE DETAIL SHEET C8.3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 EXISTING GRADE PROPOSED GRADE PROPOSED GRADE 10-YEAR HGL 915	I SEWER PLA
	12"	RCP		NEENAH R-3501-N 2'X2' BOX NEENAH R-3501-N	SHEET C8.6 SEE DETAIL IN SINCE, SEE DETAIL SEE DETAIL SHEET C8.3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 EXISTING GRADE PROPOSED GRADE PROPOSED GRADE 10-YEAR HGL 915 67 20 20 20 20 20 20 20 20 20 20 20 20 20	PPER EL, IN PLA
	12"	RCP		NEENAH R-3501-N 2'X2' BOX NEENAH R-3501-N	SHEET C8.6 SEE DETAIL IN SINCE, SEE DETAIL SHEET C8.2 SEE DETAIL SHEET C8.3 GRANULAR BACKFILL PER CITY OF CARMEL TRENCH DETAIL ON SHEET C8.3 EXISTING GRADE PROPOSED GRADE PROPOSED GRADE PROPOSED GRADE 915 SEE DETAIL PER OF CARMEL TRENCH DETAIL ON SHEET C8.3 915 SEE DETAIL PER OF CARMEL TRENCH DETAIL ON SHEET C8.3 910 910 SEE DETAIL PER OF CARMEL TRENCH DETAIL ON SHEET C8.3 910 SEE DETAIL PER SEE DETAIL PER OF CARMEL TRENCH DETAIL ON SHEET C8.3 SEE DETAIL PER OF CARMEL TRENCH OF CARMEL TRENCH OF CARMEL TRENCH SEE DETAIL PER SEE DETAI	COPPER CARMEL, IN CARMEL, IN ORM SEWER PLA
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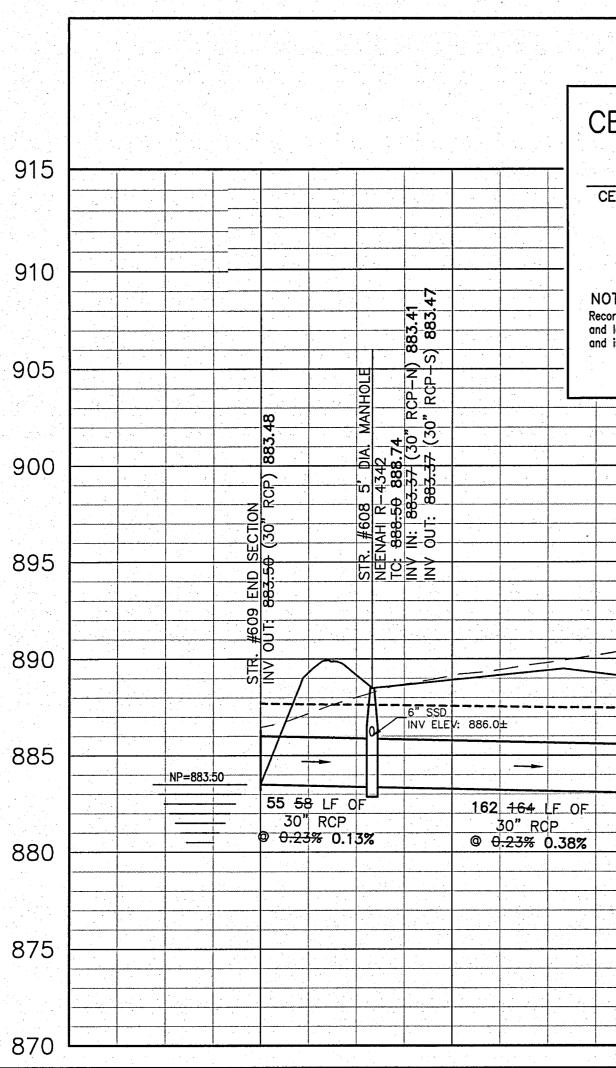
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- FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR TO FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL.
- 6. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
- 7. ALL STORMWATER DRAINAGE CASTINGS SHALL BE LABELED WITH ENVIRONMENTAL MESSAGING "DUMP NO WASTE"
- 8. ALL CONCRETE PIPE JOINTS SHALL BE CONTINUOUS O-RING RUBBER GASKET CONFORMING TO ASTM C 443
- 9. 18" OF VERTICAL SEPARATION MUST BE MAINTAINED FOR ALL UTILITY CROSSINGS.

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10. FOR STORM SEWER BACKFILL SPECIFICATIONS, REFER TO STORM SEWER TRENCH DETAIL STANDARD DRAWING 10-28 ON SHEET C8.4



LAKE #1 N.P.=883.00 10-YEAR ELEV.=887.42 100-YEAR ELEV.=887.79 BOTTOM ELEV.=875.00 TOP OF BANK ELEV.=889.00

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<u>0</u>

STORM PROFILE VERTICAL SCALE: 1" = 5' HORIZONTAL SCALE: 1" = 50'

	· · · ·	INV. IN	INV. OUT	PIPE IN	PIPE OUT		TURE DATA		DETAIL	
STR. #	TC	(ELEV.)	(ELEV.)		DIA. (INCH)	PIPE IN MATERIAL	PIPE OUT MATERIAL	STR. & CASTING TYPE	DETAIL REFERENCE	SPECIAL NOTE
607	885.88	883.00 (N)		30"		RCP		END SECTION	SEE DETAIL SHEET C8.3	
608	888.50	883.37 (N)	883.37 (S)	30"	30 "	RCP	RCP	5' DIA. MANHOLE NEENAH R-4342	SEE DETAIL SHEET C8.6	
609	886.38		883.50 (S)		30"		RCP	END SECTION	SEE DETAIL SHEET C8.3	
643	885.56	883.50 (E)		21"		RCP		END SECTION	SEE DETAIL SHEET C8.3	· · · (*** ·
644	890.65	885.50 (E)	885.40 (W)	21"	21"	RCP	RCP	4' DIA. MANHOLE NEENAH R-4342	SEE DETAIL SHEET C8.6	
645	891.73	886.25 (E)	886.15 (W)	21"	21"	RCP	RCP	DOUBLE CURB INLET W/68" SUMP NEENAH R-3501-N	SEE DETAIL SHEET C8.3	INSTALL JOF SNOUT SEE DETAIL SHEET CE
646	891.73	886.50 (E)	886.40 (W)	21"	21"	RCP	RCP	DOUBLE CURB INLET NEENAH R-3501-N	SEE DETAIL SHEET C8.3	
647	891.40	887.80 (E)	887.00 (W)	18"	21"	RCP	RCP	4' DIA. MANHOLE NEENAH R-4342	SEE DETAIL SHEET C8.6	
648	889.79		888.00 (W)		18"		RCP	END SECTION	SEE DETAIL SHEET C8.3	
	42.3	•			25' B.S.L	15° D.&UE				
TI-		1 15' D.2	28.9 ku.e.						892 892 892 892 892 892	
				10' S.S.D.&U.E. C00 ^{C0} 8000IS				// 		 648)
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				10' S.S.D.&U.E.				// = 김토 (30' S.S.E.		<u> </u>
000 890				10' S.S.D.&U.E.			(646) 1 (646)	15 -15 -15 -15 -15 -15 -15 -15 -	6477 64777 64777 6477 6477 6477 6477 6477 6477 6477 6477 6477 6477	<u> </u>
				10' S.S.D.&U.E. COCO BooIS			SSD.&U.E.	// =15 30' S.S.E. -1'S B SQ -1'S	6477 64777 64777 6477 6477 6477 6477 6477 6477 6477 6477 6477 6477	<u>/ </u>
		1 15' D.(10' S.S.D.&U.E. COCO BooIS		3N1221W TO 8 30 56' R/W	55.E	// =15 	6477 64777 64777 6477 6477 6477 6477 6477 6477 6477 6477 6477 6477	<u>/ </u>
	CA "A" D.E. & BMP.E	1 15' D.(10' S.S.D.&U.E. COCO BooIS		W B* D.L. WATERLINE	10' \$\$\$P.\$\$U.E.	// =15 30' S.S.E. -1'S B SQ -1'S	6477 647 64	<u>/ </u>
		1 15' D.(10' S.S.D.&U.E. COCO BooIS		NTREIW TO 8 56' R/W	10' \$\$\$P.\$\$U.E.	// =15 30' S.S.E. -1'S B SQ -1'S	6477 64777 64777 6477 6477 6477 6477 6477 6477 6477 6477 6477 6477	<u> </u>
		1 15' D.(10' S.S.D.&U.E. COCO BooIS		NTREIW TO 8 56' R/W	10' \$\$\$P.\$\$U.E.	// =15 30' S.S.E. -1'S B SQ -1'S	6477 64777 64777 6477 6477 6477 6477 6477 6477 6477 6477 6477 6477	<u> </u>

ERTIFICATION FOR "RECORI	D DRAWING"
Lingh	WILLE A. JAM
CERTIFIED BY: ULUKE A. JAHN	REGISTERED VIII

N Re an	NOTE: ecord dro nd length nd is for		. PENNS INDIANA 347-36	C ENG SYLVANIA APOLIS, II 563 F only for to percentage on only.	STREET NDIANA TAX (317	, SUITE 46204 ') 347:		ns re	DA	209 ST SS/ON TE: 4/1	NO. 200171 ATE OF /DIANA VAL VAL 4/2020	NULLININI				NHOLE	CP-E) 885.39 RCP-W) 885.39					CURB INLET W/68"	RCP-E) 886.33 " RCP-W) 886.23	OL & DEBRIS STOP	1.60 (21" RCP-E) 886.42 49 (21" RCP-W) 886.		
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8							-				-					· , .				B" WATER	1		@	0.47%	6 0.28%	,	
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UPSTREAM TO DOWNSTREAM 608-607 609-608 644-643 645-644 646-645 647-646 648-647		PIPE DIA. (IN) 30" 21" 21" 21" 21" 18"	KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. Call 811 or 800-382-5544 Befor Call 811 or 800-382-5544 Befor GRAPHIC SCALL 0' 50' 100' (IN FEET)	E 150'	REVISION DATE DESCRIPTION 7/02/18 REVISED PER TAC COMMENTS 8/02/18 REVISED PER TAC COMMENTS 9/12/18 REVISED SUBDIVISION NAME & STREET NAME 1/25/19 RECORD DRAWING 1/25/19 RECORD DRAWING 1/25/19 RECORD DRAWING 1/25/19 RECORD DRAWING 1/25/19 REVISED ENTRY SIGN FOOTPRINT ADDED MOUNDS TO COMMON AREA "A" MOUNDS TO COMMON AREA "A" INDIANAPOLIS - TERRE HAUT LAFAYETTE - MUNCIE - NEW ALL WWW.hwcengineering.com	BY DC DC DC SD KM KS RING
			BENCHMARK INFORMATION NOTE: ELEVATION INFORMATION SHOWN HEREOM TO THE NORTH AMERICAN VERTICAL DATUM OF BASED UPON GPS OBSERVATIONS PROCESSED GEODETIC SERVICE (NGS) UTILIZING AN ON-LIN USER SERVICE (OPUS) SOLUTION FROM OBSERV CONTROL POINT #100 (PRIMARY BENCHMARK) WITH RED PLASTIC CAP STAMPED "HWC RANDO THE FIELD SOUTH OF THE MAIN HOUSE, APPRO WEST OF THE WEST-MOST TREE LINE ALONG T THE SUBJECT TRACT, AND APPROXIMATELY 400 THE RAIL FENCE ALONG THE SOUTH LINE OF T ELEVATION: 892.72 (NAVD 88) CONTROL POINT #101- 5/8-INCH REBAR WITH STAMPED "HWC RANDOM POINT" SET NORTH OF AND 200 FEET WEST OF THE ASPHALT DRIVEW SUBJECT TRACT, APPROXIMATELY 15 FEET NOR EDGE OF PAVEMENT OF W. 131ST STREET AND SOUTHEAST OF THE SOUTHWEST CORNER OF A SIDEWALK. ELEVATION: 896.56 (NAVD 88) CONTROL POINT #102- MAG NAIL WITH WASHEL RANDOM POINT" SET FLUSH WITH THE ROAD SU SOUTH END OF THE MEDIAN AT THE INTERSEC' LANE AND W. 131ST STREET, APPROXIMATELY FROM THE BACK OF CURB OF THE MEDIAN ANT SOUTHEAST OF THE STOP SIGN AT THE INTERSEC' LANE AND W. 131ST STREET, APPROXIMATELY FROM THE BACK OF CURB OF THE MEDIAN ANT SOUTHEAST OF THE STOP SIGN AT THE INTERSEC' LANE AND W. 131ST STREET, APPROXIMATELY FROM THE BACK OF CURB OF THE MEDIAN ANT SOUTHEAST OF THE STOP SIGN AT THE INTERSEC LANE AND W. 131ST STREET, APPROXIMATELY FROM THE BACK OF CURB OF THE MEDIAN ANT SOUTHEAST OF THE STOP SIGN AT THE INTERSEC LANE AND W. 131ST STREET, APPROXIMATELY FROM THE BACK OF CURB OF THE MEDIAN ANT SOUTHEAST OF THE STOP SIGN AT THE INTERSE LEVATION: 895.17 (NAVD 88) HORIZONTAL INFORMATION: STATE PLANE COORDINATES-EAST ZONE, NADE	N IS REFERENCED 1988 (NAVD 88) BY THE NATIONAL E POSITIONING VATIONS ON 5/8-INCH REBAR OM POINT" SET IN DXIMATELY 75 FEET THE EAST SIDE OF 0 FEET SOUTH OF THE GRASS FIELDS. RED PLASTIC CAP W. 131ST STREET AY FOR THE RTH OF THE NORTH 31.5 FEET IN ASPHALT R STAMPED "HWC JRFACE AT THE TION OF HANSEN 4 FEET SOUTHEAST D 37.3 FEET SECTION.	UN DIANA AND PROFILE	
	647 4' DIA. MANHOLE 1 R-4342 1-40 891.35 887.80 (18" RCP-E) 887.40 1T: 887.00 (21" RCP-W) 886.95		CITY O DETAIL 	ULAR BACKFILL PER OF CARMEL TRENCH ON SHEET C8.3 NG GRADE OSED GRADE AR HGL	COPPER R CARMEL, INI STORM SEWER PLAN	
B.4± INV ELEV B.4± DF 21" RCP @ (S MAIN PIPE ELEV: 884.47	G [*] SSD 6 [*] SSD	-18 18 LI 18 [™] RCP © 1.11%			DRAWN BY	
			880 875 875		DATE MAY 18, 2018 SCALE AS SHOWN SHEET CC6.2 STORM SEWER PLAN A PROFILE	

LEGEND:

RIGHT-OF-WAY LINE EASEMENT LINE SETBACK LINE CENTERLINE CENTERLINE SWALE / FLOWLINE SUBSURFACE DRAIN ST	EXISTING	PROPOSED
EASEMENT LINE SETBACK LINE CENTERLINE SWALE / FLOWLINE SWALE / FLOWLINE SUBSURFACE DRAIN ST STORM CULVERT W WATER MAIN W STORM MANHOLE STORM MANHOLE STORM MANHOLE STORM MANHOLE STORM INLET STORM END SECTION G STORM END SECTION G STORM END SECTION G FIRE HYDRANT PROFILED PIPELINE EX EX EX EX EX EX EXING		RIGHT-OF-WAY LINE
OOO CENTERLINE SWALE / FLOWLINE OOO SUBSURFACE DRAIN SUBSURFACE DRAIN ST SANITARY SEWER ST STORM SEWER ST STORM CULVERT W WATER MAIN W WATER MAIN W SANITARY MANHOLE ST STORM MANHOLE STORM MANHOLE XXX STORM INLET XXX III STORM END SECTION V FIRE HYDRANT PROFILED PIPELINE ST EX - EXISTING INV - INVERT ELEVATION MH - MANHOLE RCP - REINFORCED CONCRETE PIPE		- EASEMENT LINE
OOO CENTERLINE SWALE / FLOWLINE OOO SUBSURFACE DRAIN SUBSURFACE DRAIN ST SANITARY SEWER ST STORM SEWER ST STORM CULVERT W WATER MAIN W WATER MAIN W SANITARY MANHOLE ST STORM MANHOLE STORM MANHOLE XXX STORM INLET XXX III STORM END SECTION V FIRE HYDRANT PROFILED PIPELINE ST EX - EXISTING INV - INVERT ELEVATION MH - MANHOLE RCP - REINFORCED CONCRETE PIPE		- SETBACK LINE
OOO SWALE / FLOWLINE OOO SUBSURFACE DRAIN SUBSURFACE DRAIN S SANITARY SEWER ST STORM SEWER ST STORM CULVERT W WATER MAIN W SANITARY MANHOLE STORM INLET Image: Storm inlet G STORM INLET Image: Grade of the store store of the store of		
SUBSURFACE DRAIN SANITARY SEWER ST ST ST ST ST ST ST ST ST ST	000	
S SANITARY SEWER S ST STORM SEWER ST ST STORM CULVERT ST WATER MAIN W (5) SANITARY MANHOLE (XXX) (5) SANITARY MANHOLE (XXX) (6) STORM MANHOLE (XXX) (7) STORM MANHOLE (XXX) (7) STORM INLET (THE XXX) (7) STORM END SECTION (XXX) (7) STORM END SECTION (XXX) (7) FIRE HYDRANT (YXX) (7) F		
ST STORM SEWER ST STORM CULVERT ST STORM CULVERT ST ST WATER MAIN W WATER MAIN W (5) SANITARY MANHOLE (XXX) (5) STORM MANHOLE (XXX) (5) STORM MANHOLE (XXX) (6) STORM END SECTION (XXX) (7) FIRE HYDRANT (XXX) (7) FIRE HYDRANT (XXX) (8) FIRE HYDRANT (XXX) (9) FIRE HYDRANT (YXX) (9) FIRE		
ST STORM CULVERT WATER MAIN Water MAIN SANITARY MANHOLE STORM MANHOLE STORM MANHOLE STORM INLET IIII STORM END SECTION FIRE HYDRANT PROFILED PIPELINE EX - EXISTING INV - INVERT ELEVATION MH - MANHOLE RCP - REINFORCED CONCRETE PIPE		
WATER MAIN WATER MAIN S SANITARY MANHOLE W STORM MANHOLE W STORM MANHOLE W STORM INLET W W STORM END SECTION C STORM END SECTION FIRE HYDRANT PROFILED PIPELINE EX - EXISTING INV - INVERT ELEVATION MH - MANHOLE RCP - REINFORCED CONCRETE PIPE		
⑤ SANITARY MANHOLE → XXX ⑤T STORM MANHOLE → XXX Ⅲ STORM INLET ⊕ Ⅲ XXX ┃ STORM END SECTION → ④ XXX ⑦ FIRE HYDRANT → → ▼ PROFILED PIPELINE ● ● ● ● EX - EXISTING ●		
STORM MANHOLE → ● (XXX) III STORM INLET IIII (XXX) III STORM END SECTION IIII (XXX) IV FIRE HYDRANT → ● PROFILED PIPELINE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		\sim
Image: Storm inlet Image: Storm end section Image: Imag		
 I STORM END SECTION → I XXX I FIRE HYDRANT → I PROFILED PIPELINE EX - EXISTING INV - INVERT ELEVATION MH - MANHOLE RCP - REINFORCED CONCRETE PIPE 		
FIRE HYDRANT PROFILED PIPELINE EX - EXISTING INV - INVERT ELEVATION MH - MANHOLE RCP - REINFORCED CONCRETE PIPE		
PROFILED PIPELINE	0	
EX - EXISTING INV - INVERT ELEVATION MH - MANHOLE RCP - REINFORCED CONCRETE PIPE	Ũ	FIRE HYDRANT
INV - INVERT ELEVATION MH - MANHOLE RCP - REINFORCED CONCRETE PIPE		PROFILED PIPELINE
MH - MANHOLE RCP - REINFORCED CONCRETE PIPE	요즘 이 방법이 있는 것을 물건하는 것들이 좋다.	
RCP - REINFORCED CONCRETE PIPE		
그는 그는 그는 사람이 있는 것 같아요. 그는 것 같아요.		
		(a) A set of the se
LPGPS - LOW PRESSURE GRINDER PUMP SYSTEM		

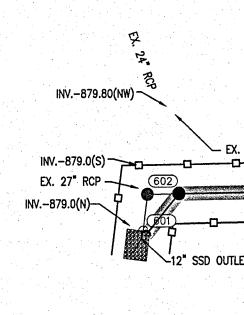
GENERAL NOTES:

1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.

- 2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- 3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
- 4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL EXISTING ELEVATIONS BEFORE CONSTRUCTION BEGINS.
- 5. THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED APPRESENTATIVE OF THE CITY OF CARMEL IN ADDITION TO SUPPLEMENTAL ADDITION TO SUPPLEMENTAL DEVIATION. SHALL DE INCLUEED AS A APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS OR 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS
- BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS AND AS APPROVED BY THE CITY OF CARMEL. 6. NO EARTH DISTURBING ACTIVITY MAY COMMENCE WITHOUT AN APPROVED STORM WATER MANAGEMENT PERMIT.
- 7. ALL STORMWATER DRAINAGE CASTINGS SHALL BE LABELED WITH ENVIRONMENTAL MESSAGING "DUMP NO WASTE"
- 8. ALL CONCRETE PIPE JOINTS SHALL BE CONTINUOUS O-RING RUBBER GASKET CONFORMING TO ASTM C 443 9. 18" OF VERTICAL SEPARATION MUST BE MAINTAINED FOR ALL UTILITY CROSSINGS.

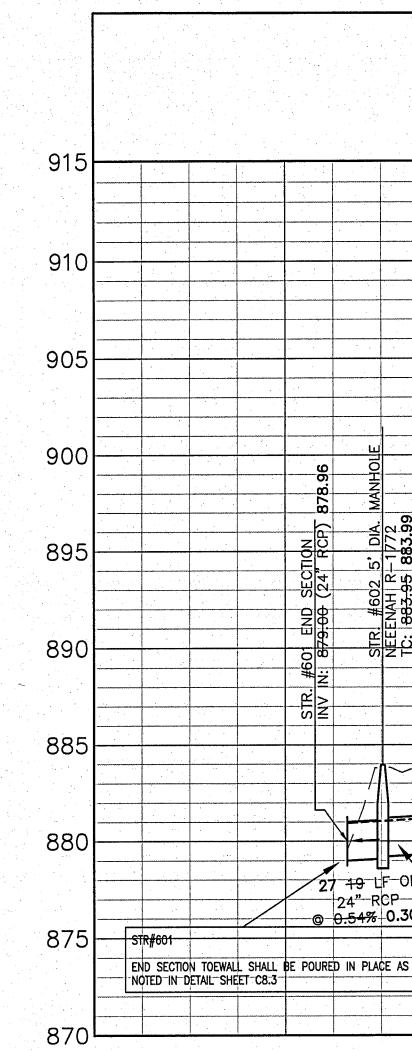
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10. FOR STORM SEWER BACKFILL SPECIFICATIONS, REFER TO STORM SEWER TRENCH DETAIL STANDARD DRAWING 10-28 ON SHEET C8.4

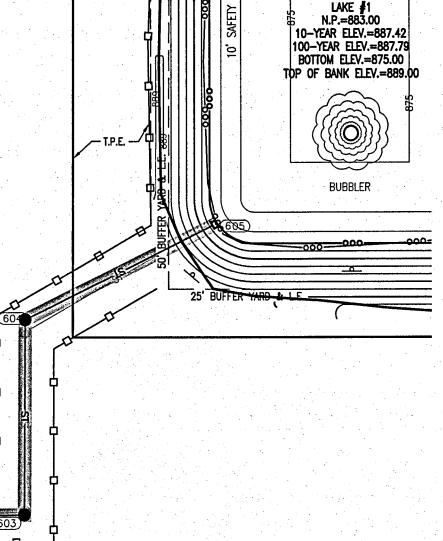


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				STO	RM SEWER S	TRUCTURE	DATA TABL	E		
STR. #	тс	INV. IN (ELEV.)	INV. OUT (ELEV.)	PIPE IN DIA. (INCH)	PIPE OUT DIA. (INCH)	PIPE IN MATERIAL	PIPE OUT MATERIAL	STR. & CASTING TYPE	DETAIL REFERENCE	SPECIAL NOTES
601	881.33	879.00 (N)		24"		RCP		END SECTION	SEE DETAIL SHEET C8.3	
602	883.95	879.20 (E)	879.10 (S)	24"	24"	RCP	RCP	5' DIA. MANHOLE NEEENAH R-1772	SEE DETAIL SHEET C8.6	
603	888.22	881.20 (N)	881.10 (W)	24"	24*	RCP	RCP	5' DIA. MANHOLE NEENAH R-1772	SEE DETAIL SHEET C8.6	
604	886.65	881.85 (NE)	881.75 (S)	24"	24"	RCP	RCP	5' DIA. MANHOLE NEENAH R-1772	SEE DETAIL SHEET C8.6	
605	887.20		882.50 (SW)		24"		RCP	POND OUTLET CONTROL STRUCTURE	SEE DETAIL SHEET C8.2	



STORM SEWER STRUCTURE DATA TABLE STR. # TC INV. IN (ELEV.) INV. OUT (ELEV.) PIPE IN DIA. (INCH) PIPE OUT DIA. (INCH) PIPE IN MATERIAL PIPE OUT MATERIAL PIPE OUT MATERIAL STR. & CASTING TYPE DETAIL REFERENCE SPECIAL NOTES 601 881.33 879.00 (N) 24* RCP END SECTION SEE DETAIL SHEET OB.3 SHEET OB.3 602 883.95 879.20 (E) 879.10 (S) 24* 24* RCP END SECTION SEE DETAIL SHEET C8.6 SEE DETAIL 603 888.22 861.20 (N) 881.10 (W) 24* 24* RCP S' DIA. MANHOLE NEENAH R-1772 SHEET C8.6 604 866.65 881.75 (NE) 881.75 (S) 24* 24* RCP RCP STO.A. MANHOLE NEENAH R-1772 SHEET C8.6 605 887.20 882.50 (SW) 24* 24* RCP RCP DON DUTLET NEENAH R-1772 SHEET C8.2	Pipe Table UPSTREAM TO PIPE DOWNSTREAM LENGTH (FT) DIA. (IN) 602-601 19 24" 603-602 344 604-603 93 24" 605-604 113 24" 605-604 113 24" 005-604 113 24" 05-604 113 24" 05-604 113 24" 05-604 113 24" 05-604 113 24" 05-604 113 24" 100' 100' 150' 100' 150' 100' 150' 100' 150' 100' 150' 100' 150' 100' 150' 100' 150' 100' 150' 100' 150'	DATE DESCRIPTION BY 06/14/18 REVISED PER KS/BB 07/02/18 REVISED PER TAC 06/02/18 REVISED PER TAC 08/02/18 REVISED PER TAC 09/12/18 REVISED PER TAC 09/12/18 REVISED PER TAC 01/25/19 RECORD DRAWING SD 01/28/19 REVISED ENTRY SIGN 01/28/19 REVISED ENTRY SIGN 02/27/19 ADDED MOUNDS TO COMMON AREA "A" KS
	DENCHMARK INFORMATION DTD:: ELEVATION INFORMATION SERVICE OF 1988 (MAND 68) BEADED UPON GFS OBSERVATIONS PORCESSED BY THE INATIONAL GEODETIC SERVICE (NG'US) UTILIZING AN OB-LIVE POSITIONISON CONTROL FORM F JEOD (SERVICE NGS) UTILIZING AN OB-LIVE POSITIONISON CONTROL FORM F JEOD (SERVICE NGS) UTILIZING AN OB-LIVE POSITIONISON CONTROL FORM F JEOD (SERVICE NGS) UTILIZING AN OB-LIVE POSITIONISON CONTROL FORM F JEOD (SERVICE NGS) UTILIZING AN OB-LIVE POSITIONISON CONTROL FORM F JEOD (SERVICE NGS) UTILIZING AN OB-LIVE POSITIONISON CONTROL FORM F JEOD (SERVICE NGS) CONTROL FORM F JEOD (SERVICE NGS) CONTROL FORM CAPS BELOWN WITH RED FLASTIC CAP STAMPED "TIME RADOWN OPENISSET SOLF OF THE SALT FRUE WEST-WORK THE SOLT HUR CAP OF THE SALT STORE TO THE (SERVICE NGS) CONTROL FORM F WEST-MORTH FED PLASTIC CAPS CONTROL FORM F MORT SET NORTH (SE W. ANST STORE TO THE SALT STORE TO THE CRASS STREED STAMPED "THE CRASSIC OPAINT SET NORTH (SE W. ANST STREET AND SALT STREET SOUTHERS SALT SALT SALT SALT SALT SALT SALT SAL	HWC ENGINEERING INDIANAPOLIS - TERE HAUTE IAAYETTE - MUNCIE - NEW ALBANY INWINKeengineering.com
AL BOING AND BUCKLUSSUL CORPUS ID BOING BUILDEN AND BUCKLUSSUL CORPUS ID BOING BUILD	915 CERTIFICATION FOR "RECORD DRAWING" 910 June A. Jahn 910 HWC ENCINEERING 910 JUNE A. JAHN 13 N. PROSIVANA 18200 NO. 900 NOTE 001 Reding cellification only for top of costing. Invest sheedown only for grant to colculated figure 900 NOTE 900 S95 890 885 880 885 880 875 870 870	DRAWN BY DC CHECKED BY B DATE MAY 18, 2018 SCALE AS SHOWN SHEET CG6.3 STORM SEWER PLAN AND PROFILE